Exhibit 34

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1
 1
                UNITED STATES DISTRICT COURT
 2
                SOUTHERN DISTRICT OF NEW YORK
 3
      SECURITIES AND EXCHANGE )
 4
      COMMISSION,
 5
                  Plaintiff,
 6
                                 ) 20-Civ-10832(AT)(SN)
        vs.
 7
      RIPPLE LABS, INC., BRADLEY )
 8
      GARLINGHOUSE, and
      CHRISTIAN A. LARSEN,
 9
                  Defendants.
10
11
12
13
14
           CONFIDENTIAL - SUBJECT TO PROTECTIVE ORDER
15
                  REMOTE VIDEO DEPOSITION OF
                      DANIEL R. FISCHEL
16
                  Monday, February 28, 2021
17
18
19
20
21
22
23
      STENOGRAPHICALLY REPORTED BY:
24
     CHERYL L. SANDECKI, CSR, RPR
     LICENSE NO. 084-03710
     JOB NO. 220228LAK
25
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2
 1
                UNITED STATES DISTRICT COURT
 2
                SOUTHERN DISTRICT OF NEW YORK
 3
      SECURITIES AND EXCHANGE
 4
      COMMISSION,
 5
                  Plaintiff,
 6
                                  ) Case No.
                                  ) 20-Civ-10832(AT)(SN)
        vs.
 7
      RIPPLE LABS, INC., BRADLEY )
      GARLINGHOUSE, and
 8
      CHRISTIAN A. LARSEN,
 9
                  Defendants.
10
11
12
13
             The videotaped deposition of
      DANIEL R. FISCHEL, called for examination
14
15
      pursuant to the Rules of Civil Procedure for the
      United States District Courts pertaining to the
16
      taking of depositions, taken before
17
      CHERYL L. SANDECKI, Certified Shorthand Reporter
18
      for the State of Illinois, at 110 North Wacker
19
20
      Drive, Chicago, Illinois, on February 28, 2022,
      at the hour of 9:15 a.m.
21
22
23
24
25
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```
3
 1
      APPEARANCES:
 2
 3
      FOR THE PLAINTIFF:
      UNITED STATES SECURITIES AND EXCHANGE COMMISSION
 4
      CHICAGO REGIONAL OFFICE
      BY: BENJAMIN J. HANAUER, ESQUIRE
 6
      175 West Jackson Boulevard
 7
      Suite 900
 8
      Chicago, Illinois 60604
 9
10
      Telephone: 312.353.8642
     E-mail: hanauerb@sec.gov
11
12
       - and -
      UNITED STATES SECURITIES AND EXCHANGE COMMISSION
13
     NEW YORK REGIONAL OFFICE
14
15
     BY: MARK SYLVESTER, ESQUIRE
     New York Regional Office
      200 Vesey Street
17
     Suite 400
18
19
     New York, New York 10281-1022
20
     Telephone: 212.336.1060
21
     Email: sylvesterm@sec.gov
22
23
24
25
```

```
4
 1
      A P P E A R A N C E S (Continued)
      FOR DEFENDANT RIPPLE LABS INC.:
 2
 3
      DEBEVOISE & PLIMPTON LLP
             SCOTT CARAVELLO, ESQUIRE (Remote)
 4
      BY:
      919 Third Avenue
      New York, New York 10022
 6
 7
      Telephone: 212.909.6000
 8
      E-Mail: scaravello@debevoise.com
             -and-
 9
10
      KELLOGG, HANSEN, TODD, FIGEL & FREDERICK PLLC
             REID M. FIGEL, ESQUIRE
11
      BY:
12
             GAVAN GIDEON, ESQUIRE
13
             KYLIE CHISEUL KIM, ESQUIRE (Remote)
14
             ELIANA PFEFFER, ESQUIRE (Remote)
15
             COLLIN R. WHITE, ESQUIRE (Remote)
16
      Sumner Square
17
      1615 M Street, N.W.
      Suite 400
18
      Washington, D.C. 20036
19
20
      Telephone: 202.326.7999
      E-mail: rfigel@kellogghansen.com
21
22
              ggideon@kellogghansen.com
23
              kkim@kellogghansen.com
24
              epfeffer@kellogghansen.com
25
              cwhite@kellogghansen.com
```

```
5
1
      A P P E A R A N C E S (Continued)
      FOR DEFENDANT BRADLEY GARLINGHOUSE:
 2
 3
      CLEARY GOTTLIEB STEEN & HAMILTON
      BY:
             MICHAEL SCHULMAN, ESQUIRE (Remote)
 4
      2112 Pennsylvania Avenue, NW
6
      Washington, D.C. 20037
7
      Telephone: 202.974.1500
      E-mail: mschulman@cqsh.com
 8
 9
10
      FOR DEFENDANT CHRISTIAN A. LARSEN:
11
      PAUL, WEISS, RIFKIND, WHARTON & GARRISON LLP
12
      BY: MARTIN FLUMENBAUM (Remote)
13
             KRISTINA A. BUNTING (Remote)
             EMILY M. GLAVIN (Remote)
14
15
      1285 Avenue of the Americas
     New York, New York 10019
16
      Telephone: 212.373.3191
17
18
      E-mail: mflumenbaum@paulweiss.com
19
               kbunting@paulweiss.com
20
               eglavin@paulweiss.com
21
22
23
24
25
```

```
6
 1
      A P P E A R A N C E S (Continued):
 2
      ALSO PRESENT:
 3
      EUGENE CANJELS, Ph.D, SEC
 4
 5
      MAXWELL CLARKE, SEC
 6
      MARINA MARTYNOVA, SEC
 7
      ARTUR MINKIN, SEC
 8
      ANA GUARDADO, Ripple Labs
 9
      STELLA UVAYDOVA, SEC
      DEREK LETELLIER, Videographer
10
11
12
13
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25
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9	Fischel Deposition Exhibit		
10	Exhibit DF-1	Expert Rebuttal Report 19 of Daniel R. Fischel	
11		Dated November 12, 2021	
12	Exhibit DF-2	Amended Expert Report of 63 Ph.D. dated	
13		October 6, 2021	
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20			
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22			
23			
24			
25			

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8
          THE VIDEOGRAPHER: This is media unit one.
 1
      We are now on the video record.
 2
 3
               This is the videotaped deposition of
      Daniel Fischel being taken on February 28, 2022.
 4
      The time is now 9:17 a.m. as indicated on the
      video screen. We are located at 110 North
 6
 7
      Wacker Drive, Suite 3800, Chicago, Illinois.
 8
               This deposition is being taken on
      behalf of the plaintiff and video recorded on
 9
10
      behalf of the plaintiff in the matter of
      Securities and Exchange Commission versus Ripple
11
12
      Labs, Inc., et al. The case number is
13
      20-Civ-10832, filed in the United States
      District Court, Southern District of New York.
14
15
               My name is Derek Letellier, certified
      legal videographer representing Gradillas Court
16
      Reporters with offices in Glendale, California.
17
      The court reporter today is Cheryl Sandecki also
18
      of Gradillas Court Reporters.
19
2.0
               Counsel, please identify yourselves for
21
      the video record and state the parties that you
22
      represent.
23
          MR. HANAUER: I think we usually just type
24
      them in.
          THE VIDEOGRAPHER: Okay, that's fine. If the
25
```

```
9
      court reporter could please swear in the
 1
 2
      witness.
 3
                        (Witness administered an oath.)
                       DANIEL FISCHEL,
 4
      having been first administered an oath, was
 5
      examined and testified as follows:
 6
 7
                         EXAMINATION
      BY MR. HANAUER:
 8
               Could you please state and spell your
 9
10
      name for the record please?
               Daniel Robert Fischel, F-i-s-c-h-e-l.
11
12
               And good morning, Mr. -- or Professor
13
      Fischel. My name is Ben Hanauer. I represent
      the plaintiff, the SEC in this case.
14
15
               Is there any reason why you cannot give
      accurate testimony today?
          Α.
17
               No.
              And how many preparation sessions did
18
      you have for today's deposition?
19
2.0
          Α.
               Well, I had many, many discussions with
      people that I work with at Compass Lexecon and
21
22
      then I had one Zoom call with several counsel.
23
               Counsel for Ripple in this case?
24
               Yes. I assume counsel for Ripple or
      whoever else.
25
```

- Q. Which counsel was it? Who was it?
- A. For -- well, certainly for Ripple, but I don't know if Ripple is the only -- you know, in other words, the defendant -- there is more than one defendant.
 - Q. So who were the attorneys on the Zoom call you just referenced?
 - A. Well, Mr. Figel was on. Mr. Flumenbaum was on. I believe there was an attorney from Cleary on. There might have been some others.
 - Q. And that was the only preparation session you had with counsel to prepare for today's deposition?
 - A. That's right.

2.0

- Q. And did you review -- in preparing for today's deposition, did you review any documents other than the ones cited in your report that you have considered in forming any opinion that you will express in this case?
- A. I looked at some of the studies on studying whether cryptocurrencies trade in an efficient market, some of the ones cited in my report but also some others. I can't think of anything else that I reviewed.
 - Q. And the ones you didn't cite in your

```
11
 1
      report, will you be disclosing those?
               I have no objection to it. But it's
 2
 3
      certainly not up to me.
          Q.
               What are they?
 4
               I don't know the titles, but the --
      there have been other articles written in
 6
 7
      addition to the ones cited by Dr. And we
 8
      just did a more complete literature search.
          Q.
              And who is "we"?
 9
10
          Α.
             My firm, Compass Lexecon.
              And you considered those studies?
11
          Ο.
12
          MR. FIGEL: Objection.
13
          THE WITNESS: Well, considered, yes, in the
      sense that I looked at them.
14
15
      BY MR. HANAUER:
               And did those -- did you consider those
16
      studies in forming any opinion you will be
17
      expressing in this case?
18
               I would say for the most part, they
19
20
      were consistent with the opinions that I did
21
      express in my report.
22
          MR. HANAUER: Well, in that case, Counsel,
23
      we're just going to put on the record that we
24
      request that you disclose those studies pursuant
      to Rule 26.
25
```

```
12
          MR. FIGEL: Your request is noted. We will
 1
      take it under advisement.
 2
 3
      BY MR. HANAUER:
               Professor Fischel, how many times have
 4
          Q.
      you had your deposition taken as an expert
      witness?
 6
 7
          Α.
               I haven't counted, but I would say a
      significant number of times.
 8
          Q.
               More than 200?
 9
10
               I don't think more than 200. Probably
      more than 100, but I don't think more than 200.
11
12
          Q.
               And if -- for the depositions you've --
13
      the depositions that were taken of you as an
      expert witness, those are listed on Appendix A
14
15
      to your report?
16
               Yes, they should be.
               How many times have you testified at
17
      trial as an expert witness?
18
               Also I haven't counted, but a
19
2.0
      significant number of times as well.
21
          Ο.
               More than 50?
               Probably more than 50.
22
23
               In this case, this lawsuit, were you
24
      ever retained in a nontestifying or consulting
      capacity?
25
```

```
13
 1
          MR. FIGEL: Objection.
 2
               You can answer.
 3
          THE WITNESS: My understanding is that we are
      always retained in a nontestifying capacity
 4
      until a decision is made to disclose, so in this
      case, me as an expert.
 6
      BY MR. HANAUER:
 7
 8
          Q.
               How many of your testifying expert
      witness cases were you engaged by the
 9
10
      government?
               I don't know the exact number. But,
11
12
      you know, a number of times.
13
               Would you say it's a large or a small
      percentage of your engagements?
14
15
               Well, as a percentage of the total, you
      know, probably pretty small but, you know, in
16
      some very important cases.
17
               When was the last time you provided us
18
      expert testimony on behalf of the government?
19
2.0
          Α.
               I testified in a case, it was a couple
21
      years ago, in connection with the Chrysler
22
      bankruptcy. I'm sure it's on my CV and it's a
23
      long-reported decision that came out of that
24
      case.
             And who did you represent -- who
25
          Ο.
```

```
14
      retained you in that case?
 1
               The justice department.
 2
               Was that a criminal matter?
 3
          Q.
          Α.
               No.
 4
               When was the last time you were
      retained as an expert witness by the government
 6
      in a prosecution or enforcement matter?
 7
 8
          A.
               In the last couple weeks.
          Q.
               And what case was that?
 9
10
          Α.
               It's -- it hasn't been disclosed yet,
      so I'm not going to disclose it.
11
12
          Q.
               You were engaged to be a testifying
13
      expert?
               You know, again, usually the
14
      understanding, even if it's not explicit, is we
15
      are retained to provide expert services and a
16
      decision is made at a subsequent point in time
17
      as to who is going to -- if anyone, is going to
18
      be a testifying expert.
19
2.0
          Q.
               Do you have any employment other than
      being a law professor and your work at Compass
21
22
      Lexecon?
23
               Well, I would say right now my formal
24
      sole employment is with Compass Lexecon, even
      though I still have very close connections to
25
```

```
15
      the University of Chicago, not just the law
 1
      school.
 2
 3
          Ο.
               So are you still a professor at the
      University of Chicago?
 4
               I still have my title. I haven't
      actively taught in the last couple of years. I
 6
 7
      keep trying to fit it in because I'm always
      asked. But the last couple of years I've just
 8
      gotten too busy to do it.
 9
10
               Do you still receive a salary or
      compensation from the University of Chicago?
11
12
          Α.
               No. But even when I was an active
13
      faculty member, I donated all my compensation
      back. So that really hasn't changed.
14
               But as I said, I'm still very much
15
      involved with the university.
16
               How much of your professional time do
17
      you spend working as an expert witness as
18
      opposed to being involved as a professor?
19
2.0
          MR. FIGEL: Objection.
21
               You can answer.
          THE WITNESS: You know, I would say now and
22
23
      in the recent past really a hundred percent of
24
      my professional time is associated with my work
      and role at Compass Lexecon.
25
```

16 BY MR. HANAUER: 1 In your role as a testifying expert, 2 3 has your expert testimony ever been excluded for any reason? 4 For any reason? I quess I would have to say yes to that. 6 7 How many times? Ο. Α. You know, not very many and for, you 8 know, a series of different kind of reasons, 9 10 too. But I would say not on substance or credentials, rather on other disclosed too late 11 12 or in one well-known case, the defendant's 13 disclosure was deemed by the District Court to 14 be inadequate and that led to a long series of 15 follow-up appellate and on bond-cum litigation all involving the justification for the -- by 16 the District Court to allow me to testify as a 17 summary witness but not as an expert witness. 18 So -- and I guess there was one --19 2.0 Q. What case was that, sir? The criminal case, the United States 21 versus Nacchio. And then there was --22 23 In the Nacchio case, you performed an 24 event study in that case? I don't remember. Very possibly, but I 25 Α.

17 1 don't remember. 2 And I'm sorry, you were mentioning 3 another case when you spoke? I just don't want my answer to be 4 Α. incomplete and, therefore, misleading. There was another case, the Pfizer 6 Securities Fraud Case in the Second Circuit 7 where a District Court did exclude my testimony. 8 Again, it's a complicated story behind that. 9 10 But then the Court of Appeals reversed the District Court. Let me just finish, just to 11 12 give a complete answer. 13 The Court of Appeals ruled that -- if I 14 remember correctly, that the District Court did 15 not abuse its discretion in not allowing one minor calculation to be admitted into evidence. 16 17 But the -- that was a very small part of my testimony. The Court of Appeals said the rest 18 of my -- the District Court was reversed in not 19 20 allowing the rest of my testimony to be 21 presented to the jury. 22 And that was the Pfizer securities 23 litigation? 24 Α. That's right. Q. And you performed an event study in 25

18 that case? 1 I'm sure I performed an event study. I 2 3 mean, I performed hundreds of event studies. And in any kind of securities fraud case, I'm 4 sure I performed an event study. And the Second Circuit in the Pfizer 6 7 case affirmed the District Court's finding that a portion of your testimony was unreliable? 8 One calculation -- small calculation, I 9 10 think as the Court of Appeals stated or, more accurately, that the District Court did not 11 12 abuse its discretion in that finding. 13 Any other cases where your testimony was excluded? 14 15 Let's see. There was a case many years ago where one opinion out of three of my opinions -- it was actually a jointly-authored 17 report and the District Court ruled that one out 18 of three opinions, I think the court said, 19 2.0 wasn't relevant, if I remember correctly. 21 Ο. What case was that? You know, if I looked at my CV, I could 22 23 find it. But I don't remember the name of the 24 case. It was a long time ago. And --25 Ο.

```
19
 1
          Α.
               I don't remember any others.
               You beat me to my question.
 2
          Q.
 3
          Α.
               Yeah.
               So speaking of CV, probably a good time
 4
          Q.
      as any, I put in front of you exhibit that's
 5
      been marked as DF-1. Do you see that?
 6
 7
          Α.
               Yes.
                       (Whereupon, Deposition
 8
                      Exhibit DF-1 was marked for
 9
10
                      identification.)
      BY MR. HANAUER:
11
12
               And DF-1, that's a copy of the expert
13
      rebuttal report you submitted in this case?
14
          Α.
               Yes.
15
               And I would like to ask you some
      questions about your CV, which I believe is
16
      Appendix A to Exhibit DF-1.
17
18
          Α.
               Okay.
               How many times has a court refused to
19
20
      credit or to follow your expert opinion?
21
          MR. FIGEL: Objection.
22
          THE WITNESS: You know, I can't possibly
23
      answer that question. You know, if you mean a
24
      court did not rule in the way that -- or didn't
      base a ruling on my expert testimony or
25
```

```
20
 1
      disagreed with my expert testimony, I can't
      possibly answer that question.
 2
      BY MR. HANAUER:
 3
               Okay. Has it been many times?
 4
          Q.
          MR. FIGEL: Objection.
          THE WITNESS: Well, I've testified a lot. I
 6
 7
      would say the overwhelming majority of times
 8
      courts have -- where courts have commented on my
      testimony have credited, agreed with it, cited
 9
10
      it, relied on it. And certainly there have been
      a few times where the opposite occurred, where a
11
12
      court disagreed with my testimony.
      BY MR. HANAUER:
13
               So I would like to ask you, referring
14
      to page 4 of the appendix, the United States v.
15
      Bases and Pacilio case. You testified in that
16
      matter?
17
          Α.
              I did.
18
          Q.
             Here in Chicago?
19
2.0
          Α.
               I did.
21
               And what was your -- that was only this
          Ο.
      past summer, correct?
22
23
          Α.
               That's right.
24
          Q.
               And what was your opinion in that case?
               That the economic evidence that I
25
          Α.
```

```
21
      reviewed did not support, it was really
 1
      inconsistent with the government's allegations
 2
 3
      about spoofing.
               And the jury convicted the defendants
 4
      in that case?
               It was actually a mixed verdict.
 6
      jury acquitted on the spoofing count, which was
 7
      the count that I testified about; and convicted
 8
      on, I think, mail or wire-fraud counts, if I
 9
10
      remember correctly.
               And I want to ask you about turning to
11
12
      page 9 of your CV. The Commodities Futures
13
      Trading Commission versus Oystacher case. It's
      the third one on page 9.
14
15
               Yes, I see that.
               And you provided expert testimony at a
16
          Ο.
      preliminary injunction hearing in that case?
17
               That's right.
18
          Α.
               And you critiqued the opinion of the
19
20
      CFTC's expert witness?
21
          Α.
               That's correct.
22
               And Judge St. Eve in that case found
23
      that your critiques did not undermine the CFTC's
24
      expert's opinions?
25
          MR. FIGEL: Objection.
```

```
22
          THE WITNESS: You know, I would want to see
 1
      the opinion. I basically remember the court --
 2
      well, I don't want to -- I don't want to
 3
      speculate. I would rather see the opinion.
 4
      BY MR. HANAUER:
               And on the next page of your CV,
 6
 7
      page 10, you referenced SEC versus Wiley case.
          Α.
             Yes, I remember that case.
 8
               And you provided trial testimony for
 9
          Q.
      the defendant?
10
               I can't remember if it was a trial or
11
12
      some kind of preliminary injunction hearing or
13
      something. But I certainly testified for the
      defendant.
14
15
               What was your opinion in that case?
               You know, as you go farther back in
16
17
      time, I just need to see. If you have a copy,
      show it to me and I'll -- it will refresh my
18
      recollection.
19
2.0
          Q.
               You don't remember as we sit here
21
      today?
22
               I don't remember it well; well enough
23
      to describe.
24
              If you go to page 14 of your case --
      I'm sorry, of your CV. And do you see the case
25
```

```
23
      near the middle of the page SEC versus Carl
 1
 2
      Jasper?
 3
          Α.
              I do.
               In that case you performed an event
 4
      study on behalf of the defendant?
               Actually, you know, that's over ten
 6
      years ago. I have no recollection what that
 7
      case was about.
 8
             And going to page 17 of your CV, the
 9
10
      second case is a case called United States
      versus Sanjay Kumar?
11
12
          Α.
               Yes, I remember that case.
13
              And in that case you provided an
14
      opinion that challenged the government's expert
15
      witness's event study?
          MR. FIGEL: Objection.
16
          THE WITNESS: I don't know if that's really a
17
      fair characterization of what I did. I remember
18
      I challenged the government's calculation of
19
20
      economic loss, if I remember correctly, in a
21
      sentencing hearing.
22
      BY MR. HANAUER:
23
               And in that case the court accepted the
24
      government's expert opinion and did not accept
      yours?
25
```

```
24
 1
          MR. FIGEL: Objection.
          THE WITNESS: Yeah, that's correct, to the
 2
      best of my recollection.
 3
      BY MR. HANAUER:
 4
               Then going to page 29 of your CV, in
      the middle of the page, do you see a case called
 6
      SEC versus First City Finance Corporation?
 7
               Yes, I see that.
 8
          Α.
               I know it's going a little bit back.
 9
          Q.
10
      But do you --
11
               That's 25 years ago.
12
               Did you provide expert testimony for
      the defendant in that case?
13
               Yeah, I was going to say I think it was
14
15
      an affidavit, but it says it's testimony, so it
      was probably testimony.
16
             Do you remember anything about that
17
      testimony?
18
               Believe it or not, I do.
19
2.0
               I think it was about the economic
21
      consequences of a 13(d) filing, if I remember
      correctly.
22
23
               And in that case the court determined
24
      that your opinion relied on purely speculative
      hypothetical figures?
25
```

```
25
 1
          MR. FIGEL: Objection.
          THE WITNESS: You know, again, something that
 2
 3
      specific I would have to look.
      BY MR. HANAUER:
 4
               When was the last time that you
      provided expert testimony against the government
 6
      and the defendant was found not guilty or not
 7
      liable?
 8
 9
          MR. FIGEL: Objection.
10
          THE WITNESS: So it can't be the times I've
      testified for the government and the courts have
11
12
      relied and cited extensively my testimony,
13
      you're not including that in your question?
      BY MR. HANAUER:
14
15
               That's not part of my question.
          Q.
              I don't remember.
16
          Α.
17
              Who retained you in this case?
               I think I was originally retained by
18
      the -- at least in terms of who contacted me,
19
20
      the Kellogg Hansen firm.
21
               And is -- did you sign like an
          Ο.
      engagement letter or something like that?
22
23
               I don't know because sometimes we have
24
      engagement letters, sometimes we don't depending
      on typically whether the client that's retaining
25
```

26 us wants an engagement letter. 1 Who is the client that's retaining you 2 3 in this case? Well, as I said, I believe it's all the 4 defendants, but I'm not a hundred percent sure of that. 6 7 I know the company Ripple is retaining us and possibly the other defendants as well. 8 Are you providing testimony on behalf 9 10 of either of the individual defendants in this 11 case? 12 MR. FIGEL: Objection. 13 THE WITNESS: The testimony that I'm giving is what's contained in my report and whatever --14 and my answers to questions. As I said, I -- I 15 know that I'm being retained by Ripple. I 16 assume I'm being retained by the other 17 defendants, but I'm not a hundred percent sure. 18 BY MR. HANAUER: 19 20 Q. Your hourly rate on this engagement is 21 \$1,750? That's right. 22 Α. 23 Q. Is that your standard rate? 24 Α. Yes. When did you last raise rates? 25 Ο.

```
27
               Maybe a couple years ago.
 1
               When were you first retained in this
 2
          Q.
 3
      case?
               Well, the -- I don't remember exactly,
 4
          Α.
      but, you know, probably sometime in 2021.
 5
               Were you and Compass Lexecon retained
 6
 7
      at the same time?
 8
               Compass Lexecon would be the party that
          Α.
      was retained. I'm not typically, or to the best
 9
10
      of my recollection, ever separately retained
      from Compass Lexecon.
11
12
          Q.
               You're the chairman and president of
13
      Compass Lexecon?
14
          Α.
               I am.
15
          Q.
               Are you also the founder?
16
          Α.
               No.
               How long have you been with Compass
17
      Lexecon?
18
19
          MR. FIGEL: Objection.
20
          THE WITNESS: Well, Compass Lexecon is the
21
      successor firm to Lexecon. If you count the
22
      times when it was just Lexecon, I think I
23
      affiliated with Lexecon the first time, I think,
24
      in 1981, if I remember correctly.
25
```

```
28
 1
      BY MR. HANAUER:
               Did you found Lexecon?
 2
 3
          Α.
               No.
               How many Compass Lexecon experts have
 4
      been retained in this case?
          MR. FIGEL: Objection.
 6
          THE WITNESS: Well, if you mean formal
 7
      employees of Compass Lexecon, I think I'm the
 8
      only one, as far as I know.
 9
10
               Although I'm not exactly sure whether
      Laurentius Morais is an employee or
11
12
      an independent contractor. I believe Allen
13
      Ferrell is an independent contractor.
               Those are the experts that I'm aware of
14
15
      that, you know, we have some relationship with.
      BY MR. HANAUER:
16
17
          Q.
               Anyone else?
              Not that I know of or not that I can
18
      think of. But it's possible that there are
19
20
      other experts that I'm just not aware of.
               How many other engagements have you
21
          Ο.
22
      done for Ripple?
23
               None as far as I'm aware.
24
               And when I say "Ripple," do you
      understand that I'm referring to the defendant
25
```

```
29
      in this case?
 1
              Yes, I understand that.
 2
 3
          MR. FIGEL: Objection, Mr. Hanauer. I assume
      when you talk about defendant, you're going to
 4
      distinguish among Ripple and the individual
      defendants?
 6
 7
          MR. HANAUER: Thank you, Counsel.
      BY MR. HANAUER:
 8
          Q. I'll clare -- when I talk about
 9
10
      Ripple -- or when I say "Ripple," you understand
      that to mean the defendant Ripple Labs in this
11
12
      case?
13
              Yes, that's what I understand.
14
             How many engagements have you done for
15
      the Kellogg Hansen firm?
          MR. FIGEL: You can answer it with a number
16
      to start with.
17
          THE WITNESS: You know, again, I -- a
18
      nontrivial number, but I -- over a long period
19
2.0
      of time. I don't know the exact number.
      BY MR. HANAUER:
21
22
          Q.
             More than ten?
23
               It might be more than ten. Maybe right
24
      around ten, just as a rough -- just as a rough
25
      quess.
```

```
30
               How many engagements have you done for
 1
      the Debevoise law firm?
 2
          MR. FIGEL: Again, why don't you start with a
 3
      number, if you know.
 4
          THE WITNESS: Yeah, I want some clarification.
      Do you want me personally or the firm?
 6
      BY MR. HANAUER:
 7
 8
               Well, let's start with you.
              Because if these questions are for the
 9
          Α.
10
      firm, I really don't know. I can only speak
      about the times I've -- I personally can
11
12
      remember being involved in a case with the
13
      Debevoise law firm only.
               You know, again, a nontrivial number.
14
15
      I don't know the exact number.
             Around the same as the Kellogg firm?
16
          Ο.
          MR. FIGEL: Objection.
17
          THE WITNESS: Maybe a little less, but, you
18
      know, again, it's over a lot of years, so I'm
19
20
      not a hundred percent sure.
      BY MR. HANAUER:
21
               On this case, did the other testifying
22
23
      Compass Lexecon experts and their support teams
24
      coordinate any of their analysis or opinions?
          MR. FIGEL: Objection.
25
```

```
31
          THE WITNESS: Well, I can't speak for others.
 1
      I can only speak for myself.
 2
 3
               I did not coordinate with anyone.
      BY MR. HANAUER:
 4
               And does Compass Lexecon have any
      processes or checks installed in place to ensure
 6
      that teams work independently and do not overlap
 7
      or coordinate?
 8
          MR. FIGEL: Objection.
10
          THE WITNESS: I think that would be a
      case-by-case determination on whether those
11
12
      kinds of separations, structural separations,
13
      are required.
14
      BY MR. HANAUER:
15
               Were any employed in this case?
16
          MR. FIGEL: Objection.
          THE WITNESS: In terms of formal directions
17
      that -- of the teams would be completely
18
      separate, I would say no.
19
2.0
      BY MR. HANAUER:
               How many hours did you work on this
21
          Ο.
22
      engagement between the time you were engaged and
23
      the completion of your report?
2.4
          Α.
               I don't remember exactly. You know, as
      a rough guess, I would say somewhere between 25
25
```

```
32
      and 50 but -- hours, but I'm not sure. I would
 1
      have to check.
 2
 3
          Ο.
               And how many hours have you billed
      since completing your report?
 4
          MR. FIGEL: Objection.
          THE WITNESS: You know, again, in terms of
 6
 7
      the -- not all the time has been recorded yet,
      so, you know, I'll just give the same rough --
 8
      excuse me, the same rough guess, you know, maybe
 9
10
      somewhere between 25 and 50.
      BY MR. HANAUER:
11
12
               How much money has Compass billed to
13
      Ripple on this case in total?
14
          MR. FIGEL: Objection.
15
          THE WITNESS: I don't know.
      BY MR. HANAUER:
16
17
               How are you compensated by Compass?
          MR. FIGEL: Objection.
18
          THE WITNESS: I get a hundred percent of my
19
20
      hourly rate. And then I also get some share of
      the overall profits of Compass Lexecon.
21
22
      BY MR. HANAUER:
23
               Do you receive a portion of the rates
24
      charged by other experts and staff working on
      this litigation?
25
```

```
33
 1
          Α.
               No.
               But the full 1,750 an hour, that goes
 2
          Q.
 3
      to you?
          Α.
               Yes.
 4
               You've been on emeritus status at the
      University of Chicago since 2006?
 6
 7
          Α.
               I don't know the exact year, but
      approximately that's right.
 8
               When was the last article or
 9
10
      publication that you authored?
               It's on my CV, so whatever that is.
11
12
               Why don't we just take a look so we
      have it in the record.
13
               Okay. It looks like 2006.
14
15
               Do you consider yourself an expert in
      the field of blockchain technologies?
16
          Α.
17
               No.
               Do you consider yourself an expert in
18
      the field of digital assets or cryptocurrencies?
19
2.0
          Α.
               No.
               Have you ever owned any digital assets
21
22
      or cryptocurrencies?
23
          Α.
               No.
24
               Are you an expert on the issue of
      whether digital assets are securities under the
25
```

```
34
 1
      federal securities laws?
          MR. FIGEL: Objection.
 2
 3
          THE WITNESS: Well, first of all, that's a
      legal question, so I'm not offering any legal
 4
      testimony. But apart from that, the answer is
 6
      no.
 7
      BY MR. HANAUER:
 8
               Are you offering an opinion on how
      courts interpret the term "investment contract"
 9
      as it relates to the federal securities laws?
10
               That's the same answer as I just gave.
11
12
      It's a legal question. I'm not offering any
13
      legal opinions. And in addition to that, the
14
      answer is no.
               Will you be offering an opinion whether
15
      any XRP transaction constituted or involved
16
      sales or offers of investment contracts?
17
          MR. FIGEL: Objection.
18
          THE WITNESS: Again, that's a legal opinion.
19
20
      I will not be offering any opinion like that.
      BY MR. HANAUER:
21
               Are you offering or will you be
22
23
      offering any opinion on whether any transaction
24
      qualifies for an exemption from registration
      under the federal securities laws?
25
```

35 1 That's the same answer as my last That's a legal question. 2 several answers. 3 not offering any legal opinions. And apart from that, I'm not going to 4 -- I don't have expertise on that issue. How many times have you provided an 6 expert opinion related to an event study? 7 8 MR. FIGEL: Objection. You can answer. 9 10 THE WITNESS: Countless numbers of times. BY MR. HANAUER: 11 12 How many times have you performed an 13 event study as an expert witness? MR. FIGEL: Objection. 14 15 THE WITNESS: Hundreds, if not thousands of times. 16 BY MR. HANAUER: 17 Have you ever performed an event study 18 related to a digital asset or cryptocurrency? 19 2.0 Α. No, not that I can think of. 21 Are you offering any opinion whether 22 there are specific adjustments that should be 23 made to an event study for digital assets as 24 compared to an event study for stocks? 25 MR. FIGEL: Objection.

1

2

3

6

7

8

9

10

11

12

13

14

15

16

17

24

25

36

```
THE WITNESS: Well, I don't know if I would
say adjustments is the right word. I do think
one of the issues that always comes up with
event studies is the relationship between event
studies and the existence of efficient markets.
I'm extremely familiar with that issue.
         And I do think there is a fundamental
difference between the use or the appropriate
use of event studies in connection with
cryptocurrencies as compared with, for example,
event studies in connection with publicly-traded
stocks on the New York Stock Exchange or NASDAQ
or any organized exchange, assuming that those
stocks on those exchanges satisfy the criteria
for an efficient market.
BY MR. HANAUER:
         So I understand that, but I guess my
question is: Are you offering an opinion about
any specific adjustments that should be made to
an event study for digital assets as compared to
```

question is: Are you offering an opinion about
any specific adjustments that should be made to
an event study for digital assets as compared to
an event study for stocks?

MR. FIGEL: Objection.

THE WITNESS: I guess the specific adjustment

is whether it's appropriate to use an event

37

```
cryptocurrencies trade in an efficient market.
 1
      BY MR. HANAUER:
 2
 3
          Ο.
               And I would -- what's your answer to
      whether an event study is an appropriate test
 4
      for whether -- actually, strike that.
               Again, I understand you're that saying
 6
 7
      that there are differences between crypto
      markets and stock markets. But are you going to
 8
      give the opinion that an adjustment needs to be
 9
10
      made to an event study for crypto assets as
      opposed to an event study for stocks?
11
12
          MR. FIGEL: Objection.
13
          THE WITNESS: I've answered that question
14
      several times. I think there is no event study
      in the academic literature that finds that
15
      cryptocurrencies trade in an efficient market.
16
17
      And that raises the question, given that
      finding -- and I discussed this in my report --
18
      as to whether it's appropriate to use an event
19
      study to reach conclusions about the
2.0
21
      relationship between information and price
22
      movements in the cryptocurrency context as
23
      compared with the context where stocks trade in
24
      an efficient market, such as the situations that
      I've just described.
25
```

```
38
 1
      BY MR. HANAUER:
               When you perform an event study for
 2
 3
      expert testimony, does your expert report
      typically include a description of the important
 4
      steps in your methodology?
 6
          MR. FIGEL: Objection.
 7
          THE WITNESS: Well, that's a pretty vague
      question.
 8
               You know, I guess I frequently discuss
 9
10
      what's generally referred to as the Cammer
      factors, which are criteria which are frequently
11
12
      recognized as criteria for determining whether
13
      stocks or bonds or, I guess, any financial asset
      trade in a financial -- trade in an efficient
14
15
      market.
16
               So I guess in that sense, I would say
17
      yes.
      BY MR. HANAUER:
18
               When you perform an event study, do you
19
20
      first start with identifying all significant
21
      price changes and then check to see if those
22
      changes can be linked to news, or do you start
23
      by identifying news and then check to see if
24
      there was a price reaction to the news
25
      announcement?
```

```
39
 1
          MR. FIGEL: Objection.
          THE WITNESS: Well, you know, first of all, I
 2
 3
      would say every case depends on the relevant
      facts and circumstances depending on the
 4
      question being analyzed.
               But, generally speaking, in event
 6
      studies, you have particular periods of time
 7
      that you're analyzing, and you analyze the
 8
      relationship between price movements and what
 9
10
      happened in connection with events or the lack
      of events on particular days.
11
12
      BY MR. HANAUER:
13
               But do you first look for price changes
14
      of an asset and then see if those price changes
      can be linked to news, or do you start with news
15
      and then look to see if the news is linked to
16
17
      price changes?
          MR. FIGEL: Objection.
18
          THE WITNESS: As I said, every case is
19
20
      different. So it depends on the relevant facts
21
      and circumstances, but I would say most
      typically neither of the alternatives that you
22
23
      just posited.
24
               Most typically you look at days. If
      you're looking at -- and whatever the relevant
25
```

```
40
 1
      period of time is in connection with the inquiry
      that you're providing, you look at all the days
 2
 3
      and you look at the -- you have a -- you form a
      statistical model and you perform a -- one or
 4
      more regressions to analyze, as I said, the
      relationship between price movements, or the
 6
 7
      lack of price movements, on a set of days that
      you are analyzing.
 8
      BY MR. HANAUER:
 9
10
               In event studies that involve repeated
11
      public announcements or repeated the news
12
      announcements, do you typically only use the
13
      date of the earliest news release, or do you
14
      include all event days when that same news is
15
      repeated?
16
          MR. FIGEL: Objection.
          THE WITNESS: There's a difference between
17
18
      what you look at and how you interpret what you
      look at.
19
2.0
               In terms of what you look at, generally
      speaking, you don't make subjective judgments as
21
      to which days you look at. You look at all the
22
23
      days. And then how you interpret the results
24
      depends on, you know, again, the particular
      facts and circumstances that you're analyzing.
25
```

41 So that if you see that there is a 1 series of days that have similar information or 2 3 identical information being disclosed, you take that into account in how you interpret the 4 results. BY MR. HANAUER: 6 7 If the same news is announced on Ο. multiple days, do you treat each day where there 8 is the same announcement as an event day? 9 10 MR. FIGEL: Objection. THE WITNESS: Again, it just doesn't really 11 12 capture the typical way that event studies are 13 performed. You look at all the days. Again, speaking at a high level of 14 15 generality, because as I said, every case is different and you always have to take into 16 account the relevant facts and circumstances, 17 but you don't make subjective judgments about 18 what's an event day. 19 2.0 You look at all the days, and then you 21 see what happens on each day, if anything, and 22 what price reaction occurred on each day, if 23 anything. And you interpret the data as 24 appropriate depending on the relevant facts and circumstances. 25

```
42
      BY MR. HANAUER:
 1
 2
               Before you perform an event study as an
 3
      expert witness, do you always check whether the
      market for the financial product at issue is
 4
      sufficiently efficient?
          MR. FIGEL: Objection.
 6
 7
          THE WITNESS: I would say either explicitly
      or implicitly, yes, I think you do.
 8
      BY MR. HANAUER:
 9
10
               And what's the difference about how you
      go about checking efficiency explicitly or
11
12
      implicitly?
13
          MR. FIGEL: Objection.
          THE WITNESS: Well, many of my expert reports
14
      go through the various Cammer factors, as I
15
      stated, so I would say that's an explicit
16
17
      treatment.
               Sometimes there's no dispute and it's
18
      just obvious. So if you take a very actively
19
2.0
      traded stock on the New York Stock Exchange, for
21
      example, it might just be assumed by everyone
22
      that that stock trades in an efficient market so
23
      there's no need to demonstrate what's obvious.
24
      So, you know, that's also possible.
25
```

```
43
      BY MR. HANAUER:
 1
               So for certain of your event studies,
 2
      you don't start by performing a Cammer analysis --
 3
          MR. FIGEL: Objection.
 4
      BY MR. HANAUER:
          Q.
               -- C-A-M-M-E-R?
 6
 7
          Α.
              Yes, I'm sure that's true.
 8
          Q.
               Did anyone -- referring to your report
      in this case, Exhibit DF-1, did anyone assist
 9
10
      you in preparing the report?
          Α.
               Yes.
11
12
          Ο.
              And who was that?
13
               I would say three people particularly.
      David Gross, Eddie Grgeta, and Constance Kelly.
14
15
               And those three individuals, they are
      all affiliated with Compass?
16
               They're all employees of Compass
17
          Α.
      Lexecon, correct.
18
               Did you write the entirety of your
19
          Q.
20
      report?
21
          Α.
               You mean did I draft every word, no.
22
          Q.
               Who did? Or who else did?
23
               You know, probably -- probably the
      latter two names that I mentioned were involved
24
      in the drafting, working under my supervision.
25
```

44 Going through your report, are you able 1 to discern what portions you wrote and what 2 portions other people wrote? 3 No. Well, first of all, it's a very 4 Α. interactive process. Secondly, there were multiple drafts 6 7 that were written. And everyone was involved to some extent. 8 But as I said, I would say primarily 9 10 the other people that did most of the drafting, initial drafting, under my supervision were 11 12 Eddie Grgeta and Constance Kelly. 13 And did those two folks, did they do most -- did they draft most of your report? 14 MR. FIGEL: Objection. 15 THE WITNESS: I would say they -- they were 16 the most involved in implementing the opinions 17 that I wanted to give. 18 And, again, the report is a product of 19 20 multiple drafts. As I stated, it was very much of a cooperative project in terms of talking 21 about it, thinking about it, organizing it, 22 23 obviously, all done under my supervision and 24 direction. 25

```
45
      BY MR. HANAUER:
 1
               Was anything in your report written by
 2
 3
      Ripple's attorneys?
          MR. FIGEL: Objection.
 4
               You can answer yes or no.
          THE WITNESS: No.
 6
      BY MR. HANAUER:
 7
               Did Ripple's attorneys direct you to
 8
      write anything?
 9
10
          MR. FIGEL: Objection. Give me just a
      second, Mr. Hanauer.
11
12
               Start with, you can answer yes or no.
13
          THE WITNESS: No.
      BY MR. HANAUER:
14
15
               Did you -- does your report incorporate
      comments from Ripple's attorneys?
          MR. FIGEL: Objection.
17
               You can answer yes or no.
18
          THE WITNESS: I don't think so, no.
19
2.0
      BY MR. HANAUER:
21
               And you testified that there were three
22
      Compass team members who primarily assisted in
23
      preparing your report; is that correct?
24
          Α.
               Yes. In thinking about the case,
      conceptualizing the case, discussing ideas about
25
```

```
46
     the case, which ultimately led to the
 1
     preparation of the report and continued work
 2
      subsequently to the preparation of the work.
 3
     Those three that I mentioned.
 4
              And how many other Compass Lexecon
     personnel affiliated -- or assisted the three
 6
 7
     people you mentioned?
 8
         MR. FIGEL: Objection.
 9
          THE WITNESS: There were certainly some
10
     others. I don't know how many. I mean, I can
     think of a couple names, and I'm sure there were
11
12
     research assistants and others as well.
     BY MR. HANAUER:
13
              How many Compass personnel billed time
14
      in relation to your report?
15
         Α.
             I don't know.
16
17
              Who prepared Exhibits 1 and 2 to your
18
     report?
              Well, they were prepared after going
19
20
     through Dr. backup. I'm actually not
21
      sure who actually, at least originally, went
22
     through Dr. backup to get the data to
     prepare Exhibits 1 and 2.
23
24
              So understanding that you don't know
     who went through Dr. backup data, do you
25
```

```
47
 1
      know who was the person that prepared Exhibits 1
      and 2 to your report?
 2
 3
          MR. FIGEL: Objection.
          THE WITNESS: Physically prepared the
 4
      reports -- the exhibits, excuse me? No, I would
      say I went over the backup with the three people
 6
 7
      that I mentioned. But how that backup got
 8
      physically translated into the exhibits, which,
      as I said I went over, specifically went over
 9
10
      with the three people that I mentioned, I'm not
11
      sure.
12
      BY MR. HANAUER:
13
               Is there anything in your report that
      is inaccurate?
14
15
               Not that I know of.
               And when I say "your report," do you
16
      understand that I'm referring to Exhibit DF-1?
17
               Yes, I understand that.
18
               Is there anything in your report that
19
20
      you need to correct?
21
          Α.
               Not that I'm aware of.
               Does your report contain a complete
22
23
      statement of all the opinions you will express
24
      in this case?
          MR. FIGEL: Objection.
25
```

```
48
          THE WITNESS: Well, certainly, the opinions
 1
      that I was aware of at the time of my report.
 2
 3
      I'm not aware of any other opinions as of now
      that I would express if asked. But, obviously,
 4
      in cases of this complexity and magnitude,
      things might come up.
 6
 7
               I haven't, you know, reviewed the
      testimony of Dr. for example, or any other
 8
      expert, you know, so I don't know what I could
 9
10
      be asked, what additional work could be
      performed.
11
               But as of now, I don't have any
12
13
      additional opinions to the ones that are
14
      expressed in my report.
      BY MR. HANAUER:
15
               So, I take it, you will not be
16
      offering -- as you sit here today, are you aware
17
      of any opinions that you will offer in this case
18
      that are not contained in your report?
19
2.0
          MR. FIGEL: Objection.
21
          THE WITNESS: As I sit here today, I am not
      aware of any other opinions. But, as I said, in
22
23
      cases of this complexity and magnitude, it's my
24
      experience that things tend to come up, you keep
      working, you keep thinking of new things, you're
25
```

```
49
      told about new things, you're aware of positions
 1
      that are being taken in the case. So things
 2
 3
      could come up.
               But as of now, I'm not aware of any
 4
      additional opinions to the ones that are
 5
      contained in my report.
 6
      BY MR. HANAUER:
 7
 8
               Have you been asked to prepare either a
      supplemental report or an additional report in
 9
10
      this case?
          MR. FIGEL: Start by answering yes or no.
11
12
          THE WITNESS: No.
      BY MR. HANAUER:
13
             Does your report contain all of the
14
15
      bases and reasons for the opinions you're
16
      offering?
          MR. FIGEL: Objection.
17
          THE WITNESS: I would say yes, combined with
18
      my experience and expertise.
19
2.0
      BY MR. HANAUER:
21
             Does appendix -- why don't we just look
22
      at it. Can you pull up Appendix B to your
23
      report, please.
24
               Does Appendix B to your report identify
      all the facts and data you considered in forming
25
```

```
50
      the opinions expressed in your report?
 1
               That I relied on in my report, it
 2
      should.
 3
              Different question. Not relied on.
 4
      Considered.
          MR. FIGEL: Objection.
 6
          THE WITNESS: Well, "considered" is such a
 7
      broad term. Anything that I came in contact
 8
      with.
 9
10
      BY MR. HANAUER:
               "Considered" is the words from the
11
12
      federal rules, so that's why I'm using that
13
      word.
14
          MR. FIGEL: Objection.
          THE WITNESS: I would say considered in the
15
      way that I used the material for purposes of my
16
      report, I would say yes. But it's not all the
17
      material that I've ever seen in connection with
18
      this case. That's what I -- that's the
19
2.0
      distinction that I would draw.
      BY MR. HANAUER:
21
22
               Just so the record is clear on this,
23
      does Appendix B to your report identify all the
24
      facts and data you considered in forming the
      opinions expressed in your report?
25
```

```
51
 1
          MR. FIGEL: Objection.
          THE WITNESS: Considered in the way that you
 2
 3
      described, yes.
      BY MR. HANAUER:
 4
              Does Appendix B list all of the
      academic literature and textbooks you considered
 6
 7
      in forming the opinions expressed in your
      report?
 8
               Yes, with the caveat that I mentioned
10
      in my earlier answer, that I'm aware of other
      articles that analyze the efficiency of
11
12
      cryptocurrency markets, other than those cited
13
      by Dr. that I looked at in connection with
      the preparation of my report.
14
15
              And can you name any of those?
          Q.
              Not from memory, as I said earlier.
16
               Aside from those articles you just
17
      mentioned, are there any facts or data that you
18
      considered but did not rely upon for this
19
2.0
      engagement?
21
          MR. FIGEL: Objection.
22
          THE WITNESS: Well, that's really the
      distinction that I was drawing before. I'm sure
23
24
      I saw a lot of paper in this case that I'm not
      relying on. I don't know if that comes within
25
```

```
52
      your definition of "considered."
 1
      BY MR. HANAUER:
 2
               Did the articles you just mentioned
 3
          Q.
      that you said you reviewed but can't remember
 4
      the names of them, were any of them published in
      peer-reviewed journals?
 6
 7
               I believe so, yes.
          Α.
          Q.
             All of them?
 8
          Α.
              I don't know.
 9
10
          MR. HANAUER: And, again, Counsel, I'll just
      repeat my request on the record for disclosure
11
12
      of those materials considered by Professor
13
      Fischel.
          MR. FIGEL: We understand your request and we
14
15
      will take it under advisement.
      BY MR. HANAUER:
16
               Apart from the information contained in
17
      the documents either identified in your report
18
      or in Appendix B to your report, did you
19
2.0
      consider any other facts or data in forming the
21
      opinions stated in your report?
22
          MR. FIGEL: Objection.
23
          THE WITNESS: I don't have anything to add to
24
      what I've already said. I don't recall anything
      that I considered in connection with forming my
25
```

```
53
 1
      opinions, but I don't want to say that I didn't
      see anything else in connection with my work in
 2
 3
      this case.
      BY MR. HANAUER:
               Did you consider any of the SEC's
      interrogatory responses?
 6
               I think I -- didn't I cite some
 7
          Α.
      interrogatory responses by the SEC in my report?
 8
      I think I did. Maybe I'm confusing that with --
 9
10
          Ο.
               And I don't want to --
               Footnote was what I was thinking of.
11
12
          Q.
               Yeah. And I don't want to trip you up,
13
      Professor. It looks like under Legal Documents
      and Expert Reports, the only discovery response
14
15
      you have listed is the SEC's Answers to the
      First Set of Requests for Admission.
16
               Yeah, that's what --
17
          Α.
          MR. FIGEL: Objection.
18
          THE WITNESS: That's what I was just thinking
19
20
      of in footnote 33.
      BY MR. HANAUER:
21
22
               Okay. So I'll repeat my question.
23
               Did you consider any SEC interrogatory
24
      responses?
25
          MR. FIGEL: Objection.
```

```
54
          THE WITNESS: Not in forming my opinions. I
 1
      don't remember if I ever saw any.
 2
      BY MR. HANAUER:
 3
               Did you consider any request for
 4
      admission responses other than the SEC's
      response to Defendant's First Set of Requests
 6
      for Admissions?
 7
 8
          MR. FIGEL: Objection.
          THE WITNESS: Same answer. I don't recall
10
      one way or the other.
      BY MR. HANAUER:
11
12
               Have you reviewed any deposition
13
      transcripts in this case?
               I don't believe so. I certainly plan
14
      to look at Dr. deposition at some point,
15
16
      but I haven't as of yet.
               Have you read any other deposition
17
      transcripts from this case?
18
          Α.
19
               No.
2.0
          Q.
               You read the entirety of the amended
      complaint in this case?
21
22
               Well, when you say "the entirety," if
23
      you mean every word, probably not.
24
              Are you offering the opinion that any
      factual allegation in the complaint is untrue?
25
```

```
55
 1
          MR. FIGEL: Objection.
          THE WITNESS: It's very hard to answer that
 2
      question. I'm certainly not generally offering
 3
      opinions about factual testimony one way or the
 4
      other. But what comes within your definition of
      a "factual allegation," whether there is any
 6
 7
      overlap between whatever your definition is and
      the economic evidence and analysis that I
 8
      discussed in my report, I don't know.
 9
               So I think you'd have to be a little
10
      bit more specific as to what you're including as
11
12
      a factual allegation.
      BY MR. HANAUER:
13
               Do you have first-hand knowledge of any
14
15
      fact alleged in the complaint?
               First-hand knowledge, no.
16
               In forming your opinions in this case,
17
      did you consider any of the statements Ripple
18
      made on its website?
19
2.0
          MR. FIGEL: Objection.
21
          THE WITNESS: I don't believe so, no.
22
      BY MR. HANAUER:
23
               Did you consider any social media posts
24
      by Ripple or its personnel?
25
          MR. FIGEL: Objection.
```

```
56
          THE WITNESS: No.
 1
      BY MR. HANAUER:
 2
             Did you consider any Ripple promotional
 3
          Q.
      materials?
 4
          MR. FIGEL: Objection.
          THE WITNESS: No.
 6
      BY MR. HANAUER:
 7
               Did you speak with any purchasers or
 8
      holders of XRP?
 9
10
              No, not to the best of my knowledge.
               Did you review any documents to
11
          Q.
12
      determine any purchaser or holder, their intent
13
      for obtaining XRP?
          MR. FIGEL: Objection.
14
15
          THE WITNESS: No.
      BY MR. HANAUER:
16
               Did you do anything to determine
17
      whether any purchaser intended to sell their XRP
18
      for a profit?
19
2.0
          Α.
               No.
               Did you do anything to determine
21
22
      whether any particular purchaser or holder
23
      intended to profit based on Ripple's efforts?
24
          MR. FIGEL: Objection.
          THE WITNESS: No.
25
```

```
57
      BY MR. HANAUER:
 1
               Are you offering any opinion about the
 2
 3
      intent or expectation of any XRP purchaser or
      holder?
 4
          MR. FIGEL: Objection.
          THE WITNESS: No.
 6
      BY MR. HANAUER:
 7
 8
               So we've been going a little bit more
      than an hour. I just want to check with you how
 9
10
      you're doing on time and breaks.
               I'm fine either taking a break or not
11
12
      taking a break, whatever your preference is or
13
      other people's preference.
          MR. FIGEL: Why don't we take a break.
14
15
               Before we go off the record, just a
      couple things. One, I assume we can have the
      standard understanding that an objection by one
17
      party constitutes an objection by all parties.
18
          MR. HANAUER: So stipulated.
19
2.0
          MR. FIGEL: And just since we are all dating
21
      ourselves, I believe the Belzberg case was 35
      years ago, not 25 years ago.
22
23
          MR. HANAUER: Let's go off the record.
24
          THE VIDEOGRAPHER: We are going off the
      record. The time is 10:24 a.m.
25
```

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58
                       (Whereupon, a recess was had at
 1
                       10:24 a.m., after which the
 2
 3
                       deposition was resumed at
                       10:44 a.m. as follows:)
 4
          THE VIDEOGRAPHER: We are back on the record.
      The time is 10:44 a.m.
 6
 7
               You may proceed.
      BY MR. HANAUER:
 8
             Professor Fischel, have you read
10
      Ripple's well submission that it submitted in
      this matter?
11
12
          Α.
               No.
13
               In preparing your report, did you
      consider any academic research or digital assets
14
15
      or cryptocurrencies?
               The articles on cryptocurrencies and
16
      efficient markets that I mentioned. I can't
17
      think of anything else, but let me just check to
18
      make sure.
19
2.0
               No. Other than that general category,
21
      I would say no.
22
               So with the exception of the two papers
23
      cited on Appendix B to your report, the Joo
24
      paper and the Feng paper, in preparing your
      report did you consider any other academic
25
```

```
59
     literature relating to digital assets for
 1
 2
     cryptocurrencies?
 3
         MR. FIGEL: Objection.
          THE WITNESS: I'm getting the -- the sequence
 4
     of when I saw articles a little bit fuzzy in my
     mind. I can't remember if Dr. cited more
 6
      than those two. I think he did. But I
 7
      certainly looked at every article that he cited
 8
     on cryptocurrencies and efficient markets.
 9
10
              And as I said, I have looked at other
      articles besides those two, but I can't remember
11
12
     before or after. I know some after. But I
13
     can't remember if there were also some before
     other than those two.
14
         MR. FIGEL: Excuse me, Mr. Hanauer, I'm not
15
      sure if the -- I had an objection to the last
     question. I'm not sure if that was the "chk."
17
          THE COURT REPORTER: That was a check. I
18
     didn't hear. Speak a little louder.
19
2.0
         MR. FIGEL: Okay. Will do.
     BY MR. HANAUER:
21
             Are you disputing the conclusions of
22
23
     any academic paper cited by Mr.
24
              Again, it's a pretty open-ended
     question. You'd have to show me which
25
```

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60
      conclusion or which paper you're referring to
 1
      before I could answer one way or the other.
 2
              Maybe we'll get to that in a little
 3
          Q.
      bit.
 4
               Do any of the opinions in your report
      rely on any assumptions?
 6
 7
          MR. FIGEL: Objection.
          THE WITNESS: Again, that's such a broad
 8
      open-ended question.
 9
10
               You know, the term "assumptions" is
      pretty open-ended. But I think in terms of any
11
12
      of the opinions formally being based on any
13
      particular assumptions, I think the answer to
      that is no.
14
15
      BY MR. HANAUER:
               Did Ripple's -- did Ripple or its
16
      attorneys ask you to make any assumptions in
17
      this case?
18
          MR. FIGEL: Objection.
19
2.0
               You can answer yes or no. Don't reveal
21
      any communications with Ripple's counsel.
22
          THE WITNESS: No.
23
      BY MR. HANAUER:
24
             Are you offering any opinions related
      to the conduct of the individual defendants in
25
```

```
61
      this case, Mr. Garlinghouse or Mr. Larsen?
 1
          MR. FIGEL: Objection.
 2
 3
          THE WITNESS: I don't believe so, no.
      BY MR. HANAUER:
 4
               Will you be offering any opinion
      related to industry custom and practice?
 6
 7
          Α.
               No.
               Will you be offering an opinion related
 8
      to any of the defendants' affirmative defenses?
 9
10
          MR. FIGEL: Objection.
          THE WITNESS: You have to tell me what they
11
12
      are.
      BY MR. HANAUER:
13
             As you sit here today, can you think of
14
      any opinion you're offering related to any of
15
      the defendants' affirmative defenses?
16
               I don't know because I don't know what
17
      the affirmative defenses are from memory.
18
               Are you offering -- will you be
19
20
      offering any opinion related to Ripple's fair
      notice defense?
21
          MR. FIGEL: Objection.
22
23
          THE WITNESS: No.
      BY MR. HANAUER:
24
          Q. Will you be offering an opinion related
25
```

```
62
      to either of the individual defendants' scienter
 1
      defenses?
 2
 3
          MR. FIGEL: Objection.
          THE WITNESS: No. I mean, obviously the
 4
      opinions I'm offering are the ones in my report.
      So if there is any overlap between any of my
 6
 7
      opinions in my report and any of your questions,
      you know, obviously my -- I'm expected to
 8
      testify if asked about my report.
 9
               But in connection with all the
10
      questions that you're asking me, I don't expect
11
12
      to, at least as of now, offer any additional
13
      opinions beyond what's in my report on those
14
      subjects.
      BY MR. HANAUER:
15
               The opinions you offer in this case are
16
      rebuttals to opinions offered by Dr. in his
17
      amended report dated October 6, 2021?
18
               Again, I'm not sure of the date. But
19
20
      they are rebuttal opinions to the opinions of
21
      Dr.
                 That's correct.
               And just so it's in the record, a copy
22
23
      of Dr.
             report, that's Exhibit DF-2?
24
          Α.
               Yes, I see that. I wasn't aware of it.
      I see the date as well.
25
```

```
63
                      (Whereupon, Deposition
 1
                      Exhibit DF-2 was marked for
 2
 3
                      identification.)
     BY MR. HANAUER:
 4
            Do your opinions in this case pertain
      solely to the opinions set forth in Dr.
 6
 7
     report?
 8
         MR. FIGEL: Objection.
         THE WITNESS: It's really an ambiguous
 9
10
     question. Some of the opinions are based on
      economic theory or literature that's not based
11
12
     on Dr. more general.
13
              But the opinions I'm offering in the
     case are rebuttal opinions to the opinions of
14
15
     Dr.
     BY MR. HANAUER:
16
              Are you offering any rebuttal opinions
17
     to Dr. rebuttal to Dr. Ferrell's report?
18
              Same answer as I gave a minute ago.
19
20
     Not specifically, except to the extent that
     something in my report can be characterized as
21
22
     also relevant to a criticism of -- in responding
23
     to a criticism of Dr. Ferrell's report --
24
     Professor Ferrell's report.
         Q. Have you read Dr. rebuttal
25
```

```
64
     report?
 1
               You mean this exhibit, whatever it is,
 2
         Α.
 3
     Exhibit 2?
            No. The rebuttal expert report that
 4
     Dr. has submitted in this case.
               I don't believe so, no.
 6
 7
               Will you be offering opinions regarding
          Ο.
      any of the SEC's experts other than Dr.
 8
         MR. FIGEL: Objection.
 9
10
          THE WITNESS: Same answer. Again, not
      specifically as far as I know, other than to the
11
12
     extent that the opinions in my report have some
13
     relevance, if they do, to responding to claims
     by other experts as well.
14
     BY MR. HANAUER:
15
               And if I refer to Dr. report, do
16
     you understand that I'm referring to Exhibit
17
     DF-2?
18
               That is what I understand, correct.
19
20
          Q.
              Have you reviewed any of the SEC's
21
     expert reports in this case other than
22
     Dr. report?
23
         Α.
               No.
24
               So I want to ask you some questions
     about event studies.
25
```

```
65
               If you had been asked to conduct an
 1
 2
      event study that assessed the claim -- I'm
 3
      sorry, let me start over.
               If you had been asked to conduct an
 4
      event study that assessed claims of any link
      between Ripple announcements and XRP prices,
 6
      would you have been able to do that?
 7
 8
          MR. FIGEL: Objection.
          THE WITNESS: It's very hard to answer that
 9
10
      question. Would I be given a purpose for why
      I'm doing it, the context of why I'm doing it?
11
12
               I'm not sure I can answer the question
13
      without an answer to those questions.
14
      BY MR. HANAUER:
               Well, Dr. he did an event study
15
      that looked at the impact of Ripple public
      announcements and XRP prices, right?
17
         MR. FIGEL: Objection.
18
          THE WITNESS: Yes, he did that.
19
2.0
      BY MR. HANAUER:
21
               If you wanted to conduct a similar
      event study, could you do that?
22
23
          MR. FIGEL: Objection.
24
          THE WITNESS: Again, it's hard to answer that
      question because if you just mean the actual act
25
```

```
66
 1
      of conducting an event study, you can conduct an
      event study of the relationship between any
 2
 3
      event and any price. It has nothing -- there's
      nothing unique about cryptocurrencies.
 4
               The only issue is whether it's
      appropriate to do it, what it shows you, what
 6
 7
      you can infer from it. And that's why context
      is important.
 8
               If you asked me to conduct an event
 9
10
      study between announcements by Kellogg's and the
      price of Corn Flakes, you can do that.
11
               In other words, an event study is just
12
13
      a statistical technique to analyze the
14
      relationship between what occurs on particular
15
      days or events on particular days and price
16
      movements.
               It might not be valid for any purpose,
17
      it might not tell you anything, but you could
18
      physically conduct that statistical analysis for
19
20
      anything.
21
               But that's not really meaningful
      outside the issue of for what purpose, whether
22
23
      it's appropriate, and what it tells you. And,
24
      again, that's one of the really fundamental
      flaws, in my opinion, in Dr. report and
25
```

```
67
      why his methodology is so defective.
 1
      BY MR. HANAUER:
 2
 3
          Ο.
               Would you be able to conduct an event
      study that validly or accurately determined a
 4
      link between Ripple public announcements and XRP
      prices?
 6
 7
          MR. FIGEL: Objection.
          THE WITNESS: You know, again, it depends for
 8
      what purpose and it depends by what you mean by
 9
      "validly."
10
               In other words, there are a series of
11
12
      academic studies that have attempted to use
13
      event studies to analyze whether cryptocurrencies
      trade in an efficient market. If that's the
14
15
      question that's being analyzed, then, yes, I
      could -- if I were interested in analyzing that
16
      question independently from the academic studies
17
      that have analyzed that question, I could an --
18
      I could do that, in the same way that academic
19
20
      studies have already done that.
21
               That's -- excuse me. That's why the
      purpose of conducting an event study has to be
22
23
      considered anytime you're asking the question of
24
      what you can validly do or not do.
25
```

```
68
      BY MR. HANAUER:
 1
 2
               So I think you said you could conduct
 3
      an event study to determine the efficiency of
      the market for XRP?
 4
          MR. FIGEL: Objection.
          THE WITNESS: That's right.
 6
 7
      BY MR. HANAUER:
 8
          Q.
               Could you conduct an event study for
 9
      another purpose such as accurately determining
10
      the impact of public announcements on XRP
11
      prices?
12
          MR. FIGEL: Objection.
13
          THE WITNESS: Well, that gets a lot more
14
      complicated because one of the findings in the
15
      academic literature is -- one of the purposes of
      determining whether it's possible to draw
16
      meaningful conclusions about the relationships
17
      between events and prices is the existence of an
18
      efficient market because the definition of a
19
20
      semi-strong efficient market is prices that
21
      reflect publicly-available information quickly
22
      and without bias.
23
               And in the absence of a finding of an
24
      efficient market, you don't have a -- those
25
      criteria are not satisfied or may not be
```

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69
      satisfied or one or both may not be satisfied.
 1
               And that immediately is something that
 2
 3
      has to be taken into account at the very least
      and may call into question any conclusions that
 4
      are drawn in the absence of an efficient market.
               But, again, you need to provide a
 6
      little more context and definition to answer
 7
      beyond that general answer.
 8
      BY MR. HANAUER:
 9
10
               Did you conduct an event study in this
11
      case?
12
               No, other than -- not independently,
13
      other than reviewing the academic literature and
14
      reviewing the work by Dr.
15
               Did anyone at Compass conduct an event
      study related to this case?
               Not to the best of my knowledge.
17
          Α.
             Are you offering an opinion in this
18
      case on the informational efficiency of the XRP
19
2.0
      market?
21
          MR. FIGEL: Objection.
          THE WITNESS: Well, I think Dr. for all
22
23
      practical purposes, concedes that the XRP market
24
      is not informationally efficient.
               And apart from that, a number of the
25
```

```
70
 1
      academic studies concede the same thing. In
      fact, the Joo article that he cites, if I
 2
      remember correctly, concludes that the XRP
 3
      market is one of the least efficient
 4
      cryptocurrency market, although he doesn't cite
      that.
 6
      BY MR. HANAUER:
 7
               What article is that?
 8
          Q.
          Α.
              The Joo article that he cites.
10
          Ο.
             J-0-0?
               J-O-N, I think it is. Or maybe I'm
11
12
      getting the name wrong.
13
               Yeah, I'm sorry, J-O-O, you're right.
               Did you do any independent analysis to
14
      test the efficiency of the XRP market?
15
               No, other than what I just described of
16
      reviewing the academic literature and looking at
17
      the findings of Dr.
18
               Did anyone at Compass do any
19
20
      independent analysis to test the efficiency of
      the XRP market?
21
               Not to the best of my knowledge.
22
23
               As an expert witness, have you ever
24
      performed an event study where you tried to
      assess whether there was a link between a news
25
```

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71
      event and a price reaction, and you concluded
 1
      that there was no such link based on the
 2
 3
      observation of abnormal reactions in price on
      days with no news events?
 4
          MR. FIGEL: Objection.
          THE WITNESS: You know, I've conducted a lot
 6
      of event studies in a lot of different contexts.
 7
      You know, I just don't know. I don't recall one
 8
      way or the other whether that situation has ever
 9
10
      occurred.
      BY MR. HANAUER:
11
12
               Can you name any case, as you sit here
13
      today, where you applied such an analysis?
14
          MR. FIGEL: Objection.
15
          THE WITNESS: Well, it's reached a particular
      conclusion if I understood your -- based on an
16
      assumed set of facts, if I understood your
17
      question correctly.
18
               I can't name any event study in the
19
2.0
      hundreds or thousands that I've done where --
21
      because there's so many different permutations
22
      in so many event studies over so many years. I
23
      just can't tell you one way or the other.
      BY MR. HANAUER:
2.4
          Q. So I want to ask you about the Joo
25
```

```
72
      article, Announcement of Facts in the
 1
      Cryptocurrency Markets.
 2
 3
          Α.
               Okay.
               You read that article in connection
 4
      with your report?
               Yes, that's correct.
 6
 7
               Do you dispute any of the findings in
          Ο.
      the Joo article?
 8
               Well, again, you have to show me the
 9
10
      article and show me which finding you're
      referring to.
11
12
               As you sit here today, can you name any
13
      findings that you're able to dispute?
14
          MR. FIGEL: Objection.
15
          THE WITNESS: As I sit here, I don't remember
      all the findings, so I don't know if there's any
      that I disagree with without looking at the
17
      findings themselves.
18
      BY MR. HANAUER:
19
2.0
               Are you aware of any scholarly article
      disputing any findings from the Joo article?
21
22
          MR. FIGEL: Objection.
23
          THE WITNESS: I'd have to look.
      BY MR. HANAUER:
24
          Q. As you sit here today?
25
```

```
73
               I don't have the articles in front of
 1
      me. As I sit here today, I just don't know one
 2
 3
      way or the other.
               Do you have any critiques of the design
 4
      of the event studies described in the Joo
      article?
 6
 7
          MR. FIGEL: Objection.
          THE WITNESS: Again, I don't have the article
 8
      in front of me so I don't know.
 9
10
                       (Whereupon, Deposition
                       Exhibit DF-3 was marked for
11
12
                       identification.)
      BY MR. HANAUER:
13
               Is Exhibit DF-3 a copy of the Joo
14
      article we've just been discussing?
15
              It is.
16
          Α.
               What do you want me to look at?
17
               Well, I asked you some questions and
18
      you said you'd need to have the report in front
19
2.0
      of you so --
               I thought you asked me some questions
21
      about particular aspects of the Joo article.
22
23
               Okay. Do you have any critique of the
24
      author's design of the event studies described?
25
               You know, I haven't studied the design
          Α.
```

```
74
      of the empirical test in any detail. But just
 1
      looking over the article, I don't have any
 2
 3
      particular specific criticisms.
               Did you -- in preparing your report,
 4
          Ο.
      did you consider the Feng article, Informed
      Trading in the Bitcoin Market?
 6
               I think I considered it and discussed
 7
          Α.
      it in -- I think it was a footnote in my report
 8
      if I remember correctly.
 9
10
               Are you offering an opinion that
      disputes any of the findings in that paper?
11
          MR. FIGEL: Objection.
12
13
          THE WITNESS: The same answer that I just
14
      gave about this.
               First of all -- this Joo article, first
15
      of all, I don't have the article in front of me.
16
               Secondly, even if I do have the article
17
      in front of me, I'm not really trying to
18
      duplicate the results and the kinds of things
19
20
      you would really need to do to be able to know
21
      if I had any disagreement with any of the
22
      findings or the structure of the empirical
23
      tests.
24
               I did think the particular finding that
      I put in the footnote of my report was
25
```

75 significant and, again, very similar to the 1 finding in the Joo report. 2 BY MR. HANAUER: 3 And what finding is that? 4 Ο. The finding of inefficiencies in the market creating arbitrage opportunities because 6 of the deviations from market efficiency that 7 exists in other contexts. 8 Did you review the design of the event 9 10 study in the Feng article? MR. FIGEL: Objection. 11 12 THE WITNESS: You know, as I would say -- I 13 would say the same thing as I said about the Joo article. Not in any detail. 14 15 I certainly reviewed the article and the findings and the conclusions. If there was 16 anything specific, you'd have to show me the 17 article. 18 But, as I said, even if you showed it 19 20 to me, I couldn't say definitively because that 21 wasn't really my intention in reviewing the 22 articles and I didn't try and duplicate the 23 results to see if I got the same answers as the 24 authors themselves got. 25

```
76
 1
      BY MR. HANAUER:
               Did you try and duplicate the results
 2
      of either the Gerritsen article or the Schaub
 3
      article cited in Mr. report?
 4
          Α.
               No.
               So the Gerritsen report, Can Bitcoin
 6
 7
      Investors Profit From Predictions by Crypto
      Experts, you did not cite that report in
 8
      Appendix B to your own report, you did not cite
 9
10
      that paper.
               Did you consider the Gerritsen paper in
11
12
      preparing your report in this case?
13
          MR. FIGEL: Objection.
          THE WITNESS: Yes, I looked at all the
14
15
      reports cited by Dr.
      BY MR. HANAUER:
16
               Before you signed your report?
17
               That's what I'm just a little bit
18
      confused about in terms of timing. I'm not sure
19
2.0
      if it was before or after.
21
               And as you sit here today, are you
22
      offering any opinion disputing any of the
23
      findings in the Gerritsen article?
24
          MR. FIGEL: Objection.
          THE WITNESS: The exact same answers that I
25
```

```
77
     gave about the other two articles.
 1
               I don't have the article in front of
 2
 3
     me, so I don't know which finding you're
     referring to. But even if I did have the
 4
     article in front of me, I would give the same
      answer, that I didn't really read the article
 6
     with the intention of trying to duplicate the
 7
     results to see if I agreed with everything that
 8
     was done and the results that were reported in
 9
10
     the article.
               I was trying to survey the academic
11
12
     literature to see what it revealed about certain
13
     issues that were discussed in Dr. report.
     BY MR. HANAUER:
14
15
               Would your answer be the same for the
     Mark Schaub article cited by Dr.
               Yes --
17
         Α.
         MR. FIGEL: Objection.
18
         THE WITNESS: Yes, it would.
19
2.0
     BY MR. HANAUER:
21
              For Dr. report, did you read the
          Ο.
      entirety of it?
22
23
         Α.
               Yes.
24
          Q. Are you offering any opinion whether
     Dr. is qualified to offer the opinions
25
```

```
78
 1
     expressed in his report?
              No, I'm not. I'm not offering any
 2
 3
     opinion on whether he is or he isn't.
             Do you have any reason to dispute his
 4
         Q.
     qualifications?
         Α.
              No, I don't.
 6
 7
         Ο.
              Did you review Dr. work for
 8
      errors?
         MR. FIGEL: Objection.
 9
10
         THE WITNESS: I'm not sure what you mean by
      "errors." Like computational errors or -- what
11
12
     kind of errors are you talking about?
     BY MR. HANAUER:
13
            Did you review his report for
14
     computational errors?
15
             No.
16
         Α.
              Did anyone at Compass review Dr.
17
     work to see if there were computational errors?
18
              I don't believe so, no.
19
2.0
         Q.
              Did you review the data Dr. used
     to conduct his event study?
21
22
         MR. FIGEL: Objection.
23
         THE WITNESS: I mean, I reviewed the report
     so I saw the data that Dr. used in his
24
     report. That's what I would say.
25
```

```
79
     BY MR. HANAUER:
 1
              Did you review the backup data from
 2
 3
     Dr. report that the SEC produced to
     Ripple?
 4
               Yes. I mean, as I said before, that's
      where my Exhibits 1 and 2 came from, his backup
 6
 7
     data.
 8
             And did you review that data?
               Well, again, I'm not sure what you mean
 9
10
     by "review that data." I reviewed the data in
     his backup in order to create Exhibits 1 and 2.
11
12
               Did you or anyone at Compass find any
13
     errors in Dr. data?
14
          MR. FIGEL: Objection.
15
          THE WITNESS: We didn't really look for
      errors. I don't know if anybody saw anything
     that they thought was an error, if you mean like
17
     a mechanical error or computational error.
18
     BY MR. HANAUER:
19
2.0
               Did you or anyone working at your
     direction attempt to replicate Dr.
21
22
     calculations?
23
               No, as far as I know.
24
              And I believe that you testified that
     neither you nor anyone at Compass conducted an
25
```

```
80
      event study related to XRP?
 1
               I said that's certainly true of me.
 2
 3
      And to the best of my knowledge, it's true of
      others as well.
 4
               Why didn't you or anyone at Compass try
      and conduct an event study, excuse me, related
 6
 7
      to XRP?
 8
          Α.
               Because I thought the use of event
      studies by Dr. in his opinion was
 9
10
      methodologically flawed for a number of
      different reasons in ways that could not be
11
12
      corrected by performing another event study.
13
              Did you or anyone at Compass conduct an
      event study related to any other digital assets?
14
          MR. FIGEL: Objection.
15
          THE WITNESS: No, to the best of my
16
17
      knowledge.
      BY MR. HANAUER:
18
               Did you conduct any study to test the
19
20
      efficiency of the XRP market?
21
          Α.
               I think I've answered that already.
22
               I think Dr. I think in his
      report, concedes that the XRP market is not
23
24
      efficient. And apart from that, there is a
      series of academic articles that conclude the
25
```

81 same thing. 1 Did you attempt to apply the Cammer 2 3 factors to XRP? I actually thought about that and I 4 thought about the Cammer factors. And, again, it was obvious that XRP would not meet the 6 Cammer factors -- would not meet the 7 8 requirements for the finding of an efficient market listed in the Cammer factors. 9 10 Did you -- is there any written work or analysis applying the Cammer factors to XRP? 11 12 MR. FIGEL: Objection. 13 THE WITNESS: I actually don't know the answer to that because I specifically raised 14 15 that issue with people that I was working with, and I didn't really follow up on it because the 16 answer is obvious. 17 But I don't know whether the people I 18 was working with actually implemented that 19 20 request in a -- or that idea in a formal way by creating written work product. I just don't 21 22 know. 23 BY MR. HANAUER: 24 Have you reviewed any event studies related to XRP other than Dr. Metz's? 25

82 And other than what's in the academic 1 articles, no. 2 3 Q. Okay. So what academic articles performing an event study related to XRP have 4 you reviewed? 5 MR. FIGEL: Objection. 6 7 THE WITNESS: Whatever articles that I reviewed discuss the efficiency of the market in 8 XRPs by looking, you know, for example, at the 9 10 speed of price adjustment, the existence of serial correlation, the existence of arbitrage 11 12 opportunities. That's what I would say. BY MR. HANAUER: 13 And I'm just looking for which articles 14 actually discuss that for XRP. 15 So that's in the Joo article, right? 16 Yes, I think that's in a number of the 17 articles. But, again, I can't recite that from 18 memory without looking at all the articles. 19 2.0 Q. You can't name an article other than 21 the Joo article that performed an event study 22 related to XRP? 23 MR. FIGEL: Objection. 24 THE WITNESS: I can't name them from memory without having the articles in front of me, 25

```
83
 1
     correct.
     BY MR. HANAUER:
 2
 3
          Q.
            Are you offering an opinion in this
     case regarding Dr. conclusions about the
 4
     link between XRP prices and the prices of other
     digital assets?
 6
 7
         MR. FIGEL: Objection.
 8
          THE WITNESS: I would say I didn't -- I
      certainly saw Dr. discussion of that
 9
10
      issue in numerous places, but I did not conduct
     any separate analysis of that one way or the
11
12
     other.
13
     BY MR. HANAUER:
             Are you offering the opinion whether or
14
     not Ripple's actions or public announcements
15
      cause XRP price movements?
16
               Well, first of all, you're using the
17
     word "cause." That has a particular meaning in
18
     event study analysis.
19
2.0
               You know, what an event study can show
     is correlation. I think that's what even -- if
21
     I -- I don't remember exactly Dr.
22
23
     phraseology, but that's the right statistical
24
     answer to what an event study shows. And then
     by interpretation you might be able to reach a
25
```

```
84
 1
      conclusion about the causation.
               So I don't really think Dr. shows
 2
      that or even claims that. But I wouldn't rule
 3
      out that certain events -- certain announcements
 4
      by XRP resulted in price changes in the sense
      that, in the absence of those announcements, the
 6
 7
      exact same price changes would not have
 8
      occurred.
               And when you say announcements by XRP,
 9
          Q.
10
      do you mean --
11
          Α.
               I'm sorry.
12
          Q.
             -- announcements by Ripple?
13
          Α.
               I meant announcements by Ripple. Thank
14
      you.
15
               So using the correlation language that
      you just referenced, are you opining in this
16
      case whether or not there's a correlation
17
      between Ripple's actions or public announcements
18
      and XRP price movements?
19
2.0
               Again, it's very hard to answer that
      question at the level of generality of your
21
22
      question.
23
               I think Dr. study is
24
      fundamentally flawed in a variety of different
      ways, but I still would not rule out the
25
```

```
85
      possibility that there were times when
 1
 2
      announcements by Ripple were correlated at some
 3
      point in time with price movements by XRP.
               I think that's a fair interpretation of
 4
      the data.
               And did you perform any work or
 6
      analysis to determine if there was a correlation
 7
      between Ripple's actions or public announcements
 8
      and XRP price movements?
 9
10
          MR. FIGEL: Objection.
          THE WITNESS: You know, I guess I would say
11
      some in the sense that as a result of background
12
13
      and experience, if you pick certain events that
14
      you can anticipate would have a big price
15
      effects or see the price effects first and then
      look backwards towards the events, I believe you
16
      could imagine -- not just imagine, conclude that
17
      there was a correlation between certain
18
      announcements and certain price movements.
19
2.0
               But, again, that might be true for my
      Kellogg's and Corn Flakes example. Or maybe a
21
      more relevant example would be De Beers
22
23
      announcements.
24
               In other words, for any price movement
      that's related to a product, if you look over a
25
```

Case 1:20-cv-10832-AT-SN Document 775-35 Filed 01/13/23 Page 87 of 281 86 multi-year period, you can find announcements 1 that are likely going to be correlated with 2 3 price movements. And that's really all that Dr. did. 4 BY MR. HANAUER: And I don't want to talk about the 6 7 theoretical. I just want to talk about like what you actually did. 8 And did you perform any analysis to 9 10

And did you perform any analysis to actually determine if there is a statistically significant association between Ripple's actions or public announcements and XRP's price movements?

MR. FIGEL: Objection.

11

12

13

14

15

16

17

18

19

2.0

21

22

23

24

25

THE WITNESS: I will say not in a formal statistical sense. I think we looked at some of the biggest price movements and the events that occurred around those price movements or the announcements that occurred around those price movements.

And as I said, I think it would be fair to conclude that there was a correlation between the biggest price movements and certain announcements, even to the point of going beyond what an event study can tell you itself and

```
87
      conclude for certain isolated price movements.
 1
 2
      Those were at a minimum correlated, possibly
 3
      even caused by those announcements, but, again,
      in ways that you can find throughout the
 4
      different -- all the myriad of different
      relationships between products and price
 6
 7
      movements.
      BY MR. HANAUER:
 8
 9
          Q. How many Ripple announcements did you
10
      find were correlated with statistically
      significant XRP price movements?
11
12
          MR. FIGEL: Objection.
13
          THE WITNESS: Well, I didn't quite say that.
14
               What I said was, what we did do was
      look at some of the biggest price movements that
15
      Dr. found and then looked at certain
16
      announcements that occurred around the time of
17
      those price movements and concluded that, you
18
      know, just based on a fair interpretation of the
19
20
      data that there would -- there would likely be a
      correlation between the announcements and the
21
      price movements, and possibly even a stronger
22
23
      relationship for that handful of announcements
24
      and that handful of price movements.
25
```

88 BY MR. HANAUER: 1 2 And how many such announcements did you 3 find? I don't remember the exact number. But 4 I think we tried to find the biggest price movements. I'm not sure how we -- exactly how 6 7 we defined the biggest price movements but --8 what the cutoff was, but some relatively small number just really to illustrate that if you 9 10 start with 500 announcements over a seven-year period or whatever it was, you can find a 11 12 handful that there are big price movements where 13 there is a relationship with -- that there 14 appears to be a relationship with a handful of 15 really big price movements and particular 16 announcements. Do you agree that Dr. procedures 17 flagged days with large positive price 18 reactions? 19 20 MR. FIGEL: Objection. 21 THE WITNESS: I'm not sure what you mean by "flagged days." You can look at price reactions 22 23 on every single day if you have the data to do 24 it. And then you can create a model to tell you what a large price movement -- to define what a 25

```
89
 1
      large price movement is.
               So I don't know if that's what you mean
 2
 3
      by flagging days. But, you know, that's
      certainly what you can do with a series of price
 4
      movements.
      BY MR. HANAUER:
 6
               Did Dr. miss any days with large
 7
          Ο.
      positive price reactions?
 8
         MR. FIGEL: Objection.
 9
10
          THE WITNESS: I don't know because I didn't
      attempt to replicate his study.
11
12
      BY MR. HANAUER:
              Do you dispute Dr. conclusion
13
      that he finds statistically significant evidence
14
15
      that XRP prices react to news about Ripple's
      actions?
16
17
               That's a hard question to answer.
      Because I -- I find that the study is so
18
      methodologically flawed for numerous reasons.
19
2.0
               But notwithstanding those
      methodological flaws, I do not disagree for the
21
22
      reasons that I just said, that you could
23
      identify certain large price movements that are
24
      associated with -- in terms of correlation,
      possibly even causation, with certain
25
```

```
90
      announcements by Ripple. But I don't believe
 1
      that supports any of the conclusions that -- or
 2
     any of the opinions that Dr. reached
 3
     because his analysis is so methodologically
 4
     flawed.
 6
          Q.
               So you discuss confounding news in your
 7
      report?
               Among other things, that's right.
 8
          Α.
              Did you do any analysis to determine
 9
          Q.
10
     whether Dr. results were actually
      confounded by confounding information?
11
12
          MR. FIGEL: Objection.
13
          THE WITNESS: You mean other than what I said
14
      in the report? I'm not sure I understand the
15
     question.
     BY MR. HANAUER:
16
               Well, your report identifies various
17
     events that you claim could be confounding news,
18
19
     right?
             Or were confounded, correct.
2.0
          Α.
21
          Ο.
              Did you do any testing or analysis to
22
     determine the effect on XRP's price of the
23
      announcements you claim to be confounding news?
24
          MR. FIGEL: Objection.
          THE WITNESS: Well, sometimes I think there
25
```

is some qualitative things that you can say, as

I did in the report, and as Dr. himself
said in his report in terms of certain
concessions that he made.

But a lot of times you can't disentangle confounding information. And when that happens -- this is a very well-known problem in event studies -- you can't draw -- you can't reach conclusions about the -- in this case I'll use the word "cause" -- causes of the price movement.

You know, so for an example, in more conventional event studies, it's frequently the case that on a particular day you have two events that occur, let's say, at the same time and you don't have a basis for distinguishing which one was responsible for the price movement.

So in that situation, when that occurs, it would be a mistake to conclude that one of the two confounding events was responsible for a price movement if you can't distinguish between them.

And there is a similar problem that exists with the confounding events in Dr.

```
92
      event study, although with respect to certain of
 1
      the events you can go beyond that and make
 2
      qualitative statements, as Dr. himself does
 3
      in his report.
 4
      BY MR. HANAUER:
               Did you make any attempt to, in your
 6
 7
      words, disentangle the announcements you
      identified as confounding?
 8
         MR. FIGEL: Objection.
 9
10
          THE WITNESS: Some qualitative effort, yes.
      But a lot of times you can't disentangle, that's
11
12
      the whole point, and that's one of the
13
      criticisms of the inferences that Dr. draws
14
      to the extent that his event study is meant to
      demonstrate a relationship between Ripple's
15
      actions that reflect Ripple's, I'll use the
      word, "entrepreneurial efforts" and other causes
17
      of particular price movements.
18
      BY MR. HANAUER:
19
2.0
               Did you look at intraday price
21
      movements to see the effect of multiple
      announcements on the same day?
22
23
          MR. FIGEL: Objection.
24
          THE WITNESS: That's not really the big
      problem with confounding information in
25
```

```
Dr. event study.
```

But as I said, a lot of times you can't disentangle and that causes you to not be able to reach conclusions about the causes of price movements. But I certainly did make some qualitative assessments, as Dr. does himself.

In other words, there is a basic distinction between creating information and reporting information. If you take an example outside of event studies and, for example, a newscaster, a newscaster can report an event which has a big effect -- it could even have a big effect on prices -- but the newscaster is reporting an event that the newscaster didn't have anything to do with or the newscaster is just reporting an event that is the product of actions by others.

But if you looked at the price reaction to what the newscaster said, sometimes markets can move based on what the newscaster said, even though the newscaster had nothing to do with creating the event.

And so if you drew the inference that it was the newscaster's efforts that created the

```
94
     price movement, you would be making a
 1
 2
      fundamental mistake because you would be
 3
      ignoring the difference between creating
      information and reporting information.
 4
              And so in the case of cryptocurrencies,
      for example, in XRP and Dr. report, when
 6
     he uses things like decisions by other platforms
 7
      to allow XRP to be traded on a different
 8
     platform and calls that a significant event by
 9
10
     XRP, an XRP announcement that results in a
      significant price movement, forgetting any other
11
12
     problems with that analysis, in many ways that's
13
     like the newscaster example. That's ignoring
14
     the distinction between creating information and
     reporting information.
15
              And there are a number of other
16
17
      illustrations like that in Dr. list of, I
     quess what he calls, "event days" that have
18
      significant price reactions. And that's really
19
20
     what I discuss in my report. And actually it's
21
          himself acknowledges in his report
     because he has one footnote -- I don't remember
22
23
     exactly what the subject was -- and I'm sure I
24
     could find it -- where he reports significant
     results and I think he has a footnote saying
25
```

```
95
      it's not clear whether Ripple had anything to do
 1
      with the underlying events which caused the
 2
 3
      price movement, even though the announcement was
      made by Ripple but the announcement was
 4
      announcing something that was done by others.
               If you are trying -- if what you are
 6
      trying to test for is whether entrepreneurial
 7
 8
      efforts by Ripple are correlated with price
      movements, then you can't ignore the distinction
 9
10
      between creating information and reporting
      information. And that's a basic confounding
11
12
      problem that really permeates all of Dr.
13
      analysis, one of many really fundamental
      methodological flaws.
14
      BY MR. HANAUER:
15
               Did you look at any intraday price data
16
      on this assignment?
17
         MR. FIGEL: Objection.
18
          THE WITNESS: I think I said no because
19
20
      that's not the principal reason why I'm -- at
      least this particular methodological flaw in
21
22
      Dr. study occurred.
23
      BY MR. HANAUER:
24
               And you said you made a variety of
      qualitative assessments about the effect of
25
```

```
96
      confounding announcements. Did you perform any
 1
      quantitative assessments about the effect of
 2
 3
      confounding announcements?
          MR. FIGEL: Objection.
 4
          THE WITNESS: No. But, again, as I said, one
      of the problems with confounding announcements
 6
 7
      is frequently they can't be disentangled and
 8
      that occurs all the time in standard event study
      analysis. And when that occurs, it has to be
 9
10
      recognized as a limitation of what you can infer
      from the data. And that's exactly what Dr.
11
12
      did not do. That's another, as I said, basic
13
      methodological flaw.
14
      BY MR. HANAUER:
15
               Are you offering any opinions about the
      appropriateness of how Dr. decided to
16
      categorize the various types of Ripple news
17
      discussed in his report?
18
          MR. FIGEL: Objection.
19
2.0
          THE WITNESS: I think to some extent, yes.
      It's totally subjective. He picked certain days
21
      to analyze, ignores the vast majority of days.
22
23
      He also analyzes public events but not negative
24
      events.
               I'm not aware of any event study in any
25
```

```
97
 1
      academic journal that describes as proper
      methodology only analyzing the price reaction to
 2
 3
      positive events as opposed to negative events or
      positive price reactions as opposed to negative
 4
      price reactions.
               I'm not saying that none exists. But
 6
 7
      it seems so fundamentally inconsistent with
 8
      basic statistical analysis and basic event study
      methodology. I'm just not aware of any support
 9
10
      in peer-reviewed journals or anywhere else for
      that kind of approach.
11
12
      BY MR. HANAUER:
13
               Did Ripple make any public
14
      announcements that categorized XRP in a negative
15
      light?
16
          MR. FIGEL: Objection.
17
          THE WITNESS: I don't know whether they did
      or they didn't. But it's not only how Ripple
18
      characterized the event; it's what the price
19
2.0
      reaction is to the event.
21
               And typically event studies analyzing
      the relationship between events and price
22
23
      movements don't limit themselves to positive
24
      price movements. As I said, that's a departure
      from any recognized event study methodology that
25
```

```
98
      I've ever seen --
 1
      BY MR. HANAUER:
 2
 3
          Q.
             Are you --
               -- in any peer-reviewed journals that
 4
      I'm familiar with.
               Are you offering any opinions regarding
 6
      the appropriateness of Dr. index modeling
 7
      in this case?
 8
          MR. FIGEL: Objection.
 9
10
          THE WITNESS: You know, that's -- he's got
      all those 20 different regressions. I haven't
11
12
      really thought about whether there were any that
13
      could have been added or subtracted. So I guess
      no, I don't have any specific criticisms of that
14
15
      one issue.
      BY MR. HANAUER:
16
17
               Can you please look at your report,
      paragraph 14.
18
             Okay, I have it.
19
          Α.
2.0
          Q.
               And do you see you say [as read]:
      Based on my review of the economic evidence?
21
22
          A.
               Yes, I see that.
23
               What do you mean by "economic
24
      evidence"? What are you referring to?
               The things that are referred to
25
          Α.
```

```
99
      immediately after.
 1
              Well, what's immediately after are your
 2
 3
      conclusions, right?
              About economic evidence.
 4
             So when you say "economic evidence," is
      that the -- mean the same thing as the facts and
 6
 7
     data you reviewed?
 8
         MR. FIGEL: Objection.
          THE WITNESS: Well, I mean, if you look at
 9
10
     the sentence, it says [as read]: Based on my
     review of the economic evidence, I have
11
12
     concluded that Dr. analysis is
13
     fundamentally flawed for multiple reasons and
     provides no support for the SEC's claim that XRP
14
15
     is a security.
              And then it lists the areas that I gave
16
     as reasons based on economic evidence that
17
          analysis, in my opinion, is
18
     fundamentally flawed.
19
2.0
     BY MR. HANAUER:
21
              And the four romanettes in paragraph
     14, those are the four general critiques you
22
23
     have about Dr. opinions?
24
         Α.
              Yes, that's right.
             And beyond the reasons cited in
25
          Ο.
```

```
100
 1
     paragraph 14, are you offering any other reasons
     why you believe Dr. analysis is
 2
 3
      fundamentally flawed?
          MR. FIGEL: Objection.
 4
          THE WITNESS: Well, you know, I think the
      report speaks for itself. It's organized I
 6
 7
      think consistently with these four areas. So
 8
      that's what I would say.
     BY MR. HANAUER:
 9
10
               I guess, though, is there an area
     beyond the four identified in paragraph 14 that
11
12
     you think makes Dr. analysis
13
     fundamentally flawed?
14
          MR. FIGEL: Objection.
          THE WITNESS: Really just what's contained in
15
16
     my report.
     BY MR. HANAUER:
17
              Can you look at paragraph 16, please.
18
               Sixteen. Okay.
19
          Α.
20
          Q.
               And referring to the first paragraph --
     or the first sentence of paragraph 16, is there
21
22
      an accepted economics definition of security --
23
     of a security?
               I don't know if I would call it an
24
          Α.
     accepted economic definition. But what's stated
25
```

101 in the first sentence of paragraph 16 is a 1 2 general statement about the economic meaning of 3 a security. Is there an accepted economics 4 definition of an investment contract? Again, I'm not sure whether something 6 is understood as an accepted definition. But at 7 least my understanding of the common economic 8 meaning of an investment contract is an 9 10 investment, the success of which varies based on the success or lack of success or -- of whatever 11 12 the firm or venture that the economic actor is 13 investing in. In this lawsuit does the court decide 14 whether Ripple's XRP distributions violated the 15 federal securities laws using the economics 16 definition of investment contract or the 17 definition of investment contract as commonly 18 used under the federal securities laws? 19 2.0 MR. FIGEL: Objection. 21 THE WITNESS: I don't have an opinion on what the court should rely on. That's obviously up 22 23 to the court. 24 BY MR. HANAUER: Q. Are you offering the opinion that in 25

```
102
 1
      order for an investment product to be considered
      a security under the federal securities laws the
 2
 3
      holder of that investment product must have a
      claim on the cash flows or some other asset of
 4
      the investment products issuer?
 6
          MR. FIGEL: Objection.
 7
          THE WITNESS: That's a legal opinion. I'm
      not offering any legal opinions.
 8
      BY MR. HANAUER:
 9
10
               So you cite the Supreme Court's
      decision in SEC versus W.J. Howey Company?
11
12
          Α.
               That's right.
13
          Q.
               And you refer to the Howey test?
14
          Α.
               Correct.
15
               And that's in paragraph seven of your
          Q.
16
      report?
17
          Α.
               That's right.
              Does Dr. offer the opinion that
18
      XRP is a security under the Howey test?
19
2.0
          MR. FIGEL: Objection.
          THE WITNESS: Well, you'd have to ask him. I
21
22
      didn't see that particular opinion phrased that
23
      way in his report.
      BY MR. HANAUER:
24
                        report offer an opinion
25
          Ο.
               Does Dr.
```

```
103
      whether any aspect of the Howey test is
 1
      satisfied?
 2
 3
          MR. FIGEL: Objection.
          THE WITNESS: If you mean does he literally
 4
      offer an opinion that says this element is
      satisfied or not satisfied, again, you'd have to
 6
      ask him. But not that I recall.
 7
      BY MR. HANAUER:
 8
                        opine whether any XRP
 9
          Q. Does Dr.
10
      transactions constitute the offer of sale of
      securities?
11
12
          MR. FIGEL: Objection.
13
          THE WITNESS: Same answer.
      BY MR. HANAUER:
14
15
               And are you offering an opinion on
      whether any of Ripple's XRP transactions
      satisfied the Howey test?
17
               Again, that's a legal opinion. So, no,
18
      I'm not; I'm not offering any legal opinions.
19
2.0
          Q.
               Did you consider yourself an expert on
      how courts have applied the Supreme Court's
21
22
      Howey decision?
23
          MR. FIGEL: Objection.
24
          THE WITNESS: That's another legal opinion.
      And I'm not offering any legal opinions.
25
```

```
104
 1
      BY MR. HANAUER:
               Did you have -- have courts provided
 2
 3
      more recent guidance since Howey on how to
      determine if transactions involve the offer or
 4
      sales of securities?
 6
          MR. FIGEL: Objection.
 7
          THE WITNESS: That's another legal opinion.
      I'm not offering any legal opinions.
 8
      BY MR. HANAUER:
 9
               Did you review any such decisions in
10
      preparing your report?
11
12
          Α.
               No.
13
          MR. HANAUER: Let's go off the record.
          THE VIDEOGRAPHER: This is the end of media
14
      unit one. We are going off the record. The
15
      time is 11:57 a.m.
16
                       (Whereupon, a recess was had at
17
                       11:57 a.m., after which the
18
                       deposition was resumed at
19
2.0
                       12:19 p.m. as follows:)
          THE VIDEOGRAPHER: We are back on the record.
21
22
      This is the start of media unit two, the
23
      deposition of Daniel Fischel. The time is
24
      12:19 p.m.
25
               You may proceed.
```

105 BY MR. HANAUER: 1 Professor Fischel, before we went on 2 3 break, you provided an economics definition of investment contract. 4 Do you remember that? I think I said I'm not sure there is 6 7 such a thing as an accepted definition, but that's, I think, a general economic 8 understanding of what an investment contract is. 9 10 I actually want to clarify that point. Whatever definition you gave, does that come 11 12 from any academic textbook or scholarly article? 13 It very well might as a description. I 14 didn't search to see if that, I would say, 15 general understanding is contained in some type of finance or business text. I would expect 16 that it would appear somewhere. But I didn't 17 check. 18 Can you name one as you sit here today? 19 2.0 Α. No, I can't because I didn't 21 investigate that question. Can I ask you to look at paragraph --22 23 or page 10 of your report, please. 24 Α. Sure. Okay. And do you see a heading A says [as 25 Ο.

106 1 read]: The findings of Dr. event study methodology do not demonstrate that XRP holders 2 3 profit solely or primarily from the efforts of Ripple? 4 Yes, I see that. Does Dr. report offer the 6 7 opinion that XRP holders profit solely or 8 primarily from the efforts of Ripple? MR. FIGEL: Objection. 9 10 THE WITNESS: Again, he doesn't use those words. But in my opinion he reports his results 11 12 in a very misleading way because what he does 13 is, you know, for a series of the announcements that he subjectively picks, he has a series of 14 15 exhibits where he just shows check marks to show that there is, in his opinion, a statistical 16 relationship between the events out of the 500 17 that he picks and price reactions. 18 But if you look at his backup, and 19 20 that's the purpose of my Exhibit 1, you get a very different reaction, a very different 21 22 understanding of what that relationship is, 23 meaning that on the overwhelming majority of 24 days where he says there are events, there is no statistically significant price reaction. And 25

107 on a significant number of days where there is 1 no events, there is a statistically significant 2 3 price reaction. And you would never get that understanding from his exhibits with checks. 4 And so I thought the way he reported his results were very misleading, apart from the 6 other fundamental methodological flaws that I 7 discuss in my report, a few of which I referred 8 to already. And that's really the purpose of 9 10 this section. BY MR. HANAUER: 11 12 Did you perform any work or analysis to 13 test whether XRP holders profits solely or primarily from the efforts of Ripple? 14 15 MR. FIGEL: Objection. 16 THE WITNESS: I think Dr. own results taken at face value, even apart from the 17 methodological flaws which exist, demonstrate 18 that XRP price changes are not, and therefore, 19 2.0 XRP's holders profits from price changes are not 21 solely or primarily attributable to Ripple's 22 efforts. 23 BY MR. HANAUER: 24 I'm not asking what Dr. did. asking what you did. 25

```
108
               Did you do any work or analysis to test
 1
      whether XRP holders profit solely or primarily
 2
 3
      from Ripple's efforts?
          MR. FIGEL: Objection.
 4
          THE WITNESS: As I said, I didn't think it
      was necessary to do any tests because Dr.
 6
      own results demonstrate what I just said, which
 7
      is also included in this particular section of
 8
      my report and in Exhibit 1.
 9
10
      BY MR. HANAUER:
               Can the SEC satisfy the expectation of
11
12
      profits prong of the Howey test by establishing
13
      that under the circumstances Ripple promoted XRP
      primarily as an investment?
14
15
          MR. FIGEL: Objection.
          THE WITNESS: That sounds like a legal
16
      question. I don't have any opinion on that one
17
      way or the other.
18
      BY MR. HANAUER:
19
2.0
               Are you offering an opinion whether,
21
      under all the circumstances, Ripple ever
      promoted XRP primarily as an investment?
22
23
          MR. FIGEL: Objection.
24
          THE WITNESS: No, I'm not offering an opinion
      on that.
25
```

```
109
 1
      BY MR. HANAUER:
               Did you consider whether Ripple ever
 2
 3
      promoted XRP primarily as an investment?
          Α.
               No, I didn't. For purposes of the
 4
      analysis in my report, I did not.
 6
               Are you offering an opinion on whether,
 7
      under all the circumstances, Ripple promoted XRP
 8
      as a means whereby XRP purchasers could pool
      their own activities, their money, and Ripple's
 9
10
      contribution in a meaningful way?
          MR. FIGEL: Objection.
11
12
          THE WITNESS: I'm not offering an opinion
13
      about that.
14
      BY MR. HANAUER:
15
               Did you consider whether Ripple ever
      promoted XRP as a means whereby Ripple
16
      purchasers could pool their own activities,
17
      their money, and Ripple's contributions in a
18
      meaningful way?
19
2.0
          MR. FIGEL: Objection.
21
          THE WITNESS: No. As with the previous
22
      questions, it's not really. I didn't consider
23
      it and it's not relevant for the purposes of my
24
      analysis.
25
```

BY MR. HANAUER:

Q. Well, why is it relevant for you to consider whether XRP holders profits solely or primarily from the efforts of Ripple but not whether Ripple promoted XRP as an investment?

MR. FIGEL: Objection.

THE WITNESS: For the reason that I just said, that Dr. has exhibit after exhibit where he reports the existence of relationships with check marks. But if you look at his backup, you get a very different impression of what's behind those check marks. And it's only as a result of his subjective choice of dates to look at and how he interprets price reactions in connection with those dates that he can even get the check marks that he shows.

But as I said, even apart from the methodological flaws, which are pervasive in Dr. report, even taken at face value, I think it's fair to say that he reports his results in a very misleading way. And if you look at his backup, you can see that the relationships which he purports to find are actually much weaker and look very different than the way that he reports them.

111 BY MR. HANAUER: 1 Are you offering an opinion as to 2 3 whether XRP purchasers had a reasonable expectation of profits to be derived from the 4 entrepreneurial or managerial efforts of Ripple? I'm not offering an opinion about that. 6 Did you consider whether XRP purchasers 7 Ο. had a reasonable expectation of profits to be 8 derived from the entrepreneurial or managerial 9 10 efforts of Ripple? I didn't consider that in connection 11 12 with forming any of my opinions because it's not 13 relevant. Can you look please at page -- or 14 15 paragraph 18 of your report. 16 Α. Okay. And I want to refer you to the second 17 sentence. And you write [as read]: In fact, 18 taken at face value, Dr. analysis finds 19 20 that, (i), most days were significantly 21 positive, XRP returns had no news about Ripple's 22 efforts; and, (ii), most days with news about 23 Ripple's efforts did not have significantly 24 positive XRP returns. 25 Do you see that?

112 1 Yes, I see that. Are you offering the opinion that 2 either of those metrics identified in the two 3 romanettes, are you offering the opinion that 4 either of those are the determinative metrics for event studies? 6 7 MR. FIGEL: Objection. THE WITNESS: I don't understand that 8 question. 9 10 BY MR. HANAUER: Well, have you -- are you offering the 11 12 opinion that an event study gauges price 13 reaction by looking at the days where there is significant returns but no -- no news 14 15 announcements? 16 MR. FIGEL: Objection. THE WITNESS: I mean, an event study can show 17 you that. How relevant that is in a particular 18 case depends on the -- obviously the relevant 19 2.0 facts and circumstances of the case. BY MR. HANAUER: 21 22 Have you ever performed an event study 23 for litigation that based your finding on the 24 comparison of days with significantly positive returns compared to the days without news 25

```
113
 1
      announcements?
 2
          MR. FIGEL: Objection.
 3
          THE WITNESS: Yeah, I think probably the
      answer to that would be yes, I think.
 4
      BY MR. HANAUER:
               Can you name one, please?
 6
 7
               I think there was some insider trading
          Α.
      cases that I have been involved in where that
 8
      kind of presentation was part of what we did,
 9
10
      showing basically the relationship between
      trading days and events and showing -- and price
11
12
      movements, and showing that a lot of days when
13
      there were events, there was no trading in
14
      advance of the events. And a lot of the days
15
      when there were big price movements, there was
      no trading or no events, something of that
16
17
      nature. So I think the answer to your question
      would be yes.
18
               Can you name one of the those cases, as
19
20
      you sit here today?
21
               For some reason the name Billy Bob
          Α.
      Harris sticks in my mind. I don't know if
22
23
      that's a real person or I'm just imagining that
24
      name. But I think there was a case involving
      Billy Bob Harris. But I know there were others,
25
```

```
114
 1
      too.
               But as I sit here, I don't remember the
 2
 3
      exact names of the cases.
               Did you ever perform an event study for
 4
      litigation where the determining metric you
      looked at was days with events not having
 6
      significantly positive returns?
 7
 8
          MR. FIGEL: Objection.
          THE WITNESS: What did you say? "The
 9
10
      determining metric"? You know, other than what
      I just said, I can't think of any others, as I
11
12
      sit here. But, again, I've done so many event
13
      studies and so many different contexts over so
      many years, it's very hard to generalize of what
14
15
      I did or didn't do that would fit every single
16
      example.
      BY MR. HANAUER:
17
               Can I ask you to look at paragraph 20,
18
          Ο.
      please --
19
20
          Α.
              Okay.
             -- of your report.
21
          Ο.
22
               What is the significance of 76.3 to
23
      89.5 percent of days with significantly positive
24
      XRP returns having no news about Ripple's
25
      efforts?
```

```
115
 1
          MR. FIGEL: Objection.
                        It's what I just said.
 2
          THE WITNESS:
 3
      demonstrates from Dr. own backup exactly
      what the relationship was between statistically
 4
      significant days with statistically significant
      returns and whether or not there was news,
 6
      again, taking Dr. study at face value,
 7
 8
      including his subjective analysis of which of
      the 500 days should be analyzed, which shouldn't
 9
10
     be analyzed, which are -- tell you something
      that is probative in terms of the hypothesis
11
12
     that he's testing.
13
               But even just taking exactly what he
     did at face value and forgetting all the
14
15
     methodological criticisms that exist, this is
     what his results show, which is very different
16
      from the way he reports his results with checks.
17
          MR. HANAUER: One second.
18
                       (Short pause in proceedings.)
19
2.0
     BY MR. HANAUER:
21
               In order to determine whether Ripple
          Ο.
     news announcements contribute to XRP prices,
22
23
      should one check the magnitude of the price
24
     reaction on news days?
          MR. FIGEL: Objection.
25
```

116 1 THE WITNESS: Well, again, your question presumes that there is a basis for looking at an 2 3 inefficient market, a price reaction on days where there are announcements. 4 And one of the whole significant findings of the lack of an efficient market is 6 7 there is not really a theoretical or empirical basis to do that. 8 But putting that fundamental criticism 9 10 to one side, as a matter of statistics, it's generally accepted that there are well-accepted 11 12 methodological techniques to answer questions of 13 which price movements are large enough or which 14 returns, to be more precise, are large enough 15 that they are unlikely to be attributable to chance alone. 16 BY MR. HANAUER: 17 Did you perform any analysis in this 18 case to check the magnitude of price reaction of 19 20 XRP to Ripple announcements? 21 MR. FIGEL: Objection. THE WITNESS: Not other than reviewing 22 23 analysis and, again, with the 24 background of the relevant academic literature that I've referred to several times. 25

```
117
      BY MR. HANAUER:
 1
               Is it informative in event studies to
 2
 3
      compare price reaction on news days to price
      reaction on no news days?
 4
          MR. FIGEL: Objection.
          THE WITNESS: Can be. I mean, I think it's a
 6
      function of what it is you're trying to test
 7
      under the relevant facts and circumstances at
 8
      the time.
 9
10
      BY MR. HANAUER:
          Q. Did you perform any such analysis in
11
12
      this case?
13
          MR. FIGEL: Objection.
          THE WITNESS: No, other than looking at the
14
      results that Dr. reported.
15
      BY MR. HANAUER:
16
             Have you performed such analysis before
17
      on other event studies for litigation?
18
          MR. FIGEL: Objection.
19
20
          THE WITNESS: Probably. I mean, comparing
21
      the returns on news days with the returns on
22
      non-news days, yeah. I think so, yes, for the
23
      magnitude of returns, the volatility of returns.
24
      Yes, I'm sure I have.
25
```

```
118
      BY MR. HANAUER:
 1
               Did you do any work or analysis on this
 2
      case to determine whether there was a difference
 3
      between significant returns on news days and no
 4
      news days?
 6
          MR. FIGEL: Objection.
 7
          THE WITNESS: In terms of the magnitude of
      returns, I don't think so, but I'm not a hundred
 8
 9
      percent sure.
10
      BY MR. HANAUER:
               Did you do any work or analysis to
11
12
      determine how much XRP returns on the news days
13
      contributed to the total XRP returns during the
      relevant periods -- relevant period?
14
15
               You know, that's really, I think, the
      same question you just asked me.
16
               I don't think so in terms of that very
17
      specific comparison, but I'm not a hundred
18
19
      percent sure.
2.0
              Did you test the magnitude of abnormal
      returns estimated by Dr. on news days
21
22
      compared to no news days?
23
          THE COURT REPORTER: You said abnormal,
24
      right? Okay.
25
          MR. FIGEL: Objection.
```

```
THE WITNESS: Yeah, as I've said a number of times, I just analyzed Dr. backup to look at what he himself found, as opposed to performing any completely independent event studies.
```

What I'm not sure of is -- in response to a couple of your questions is whether we took his results and sliced them and diced them in the ways that you're suggesting, as opposed to the ways that are reported in my Exhibit 1.

BY MR. HANAUER:

- Q. In your words, did you slice and dice

 Dr. results in a way that's not reflected

 on Exhibit 1?
- A. You know, as I said, I don't think so in any systematic way, but I'm not a hundred percent sure.
- Q. Are you offering the opinion that

 Dr. event study is flawed based on the

 number of no news days with significant returns?
- A. You know, again, I think, you know, that presumes, you know, among other things, the efficiency of the market. And so I'm ignoring some of the methodological criticisms that I believe characterize Dr.

120 1 But in specific answer to your question, again, that's, if I understand the 2 question correctly, different from the way I 3 reported Dr. backup in Exhibit 1. And so 4 I don't believe we did exactly what you just said, but I'm not sure. 6 BY MR. HANAUER: 7 Are you offering the opinion that 8 event study is flawed based on the 9 10 number of news days without significant returns? As I said, I think Dr. reports his 11 12 results in a fundamentally misleading way, and I 13 think there are other methodological flaws that undermine his event study. 14 15 And that's basically what I said in my report and that's what I think. 16 So in paragraph 20, the percentages in 17 romanettes (i) and (ii), does that come from 18 Exhibit 1 --19 2.0 Α. Yes. 21 Ο. -- to your report? 22 Α. Yes, it does. 23 And do the metrics in those two 24 romanettes establish that XRP holders do not profit solely or primarily from the efforts of 25

121 Ripple? 1 I think they are inconsistent with the 2 3 claim that XRP holders primarily -- that profit primarily or solely from the profits of Ripple. 4 So for Exhibit 1 to your report, can you remind me who prepared that? 6 7 I'll just adopt all my previous answers Α. to that question. I'm not sure who actually 8 physically prepared the exhibit. 9 10 The exhibits are taken straight from backup, which we analyzed to try and 11 12 get behind the way he reported his results in 13 his report. So whoever -- whoever it is that 14 prepared Exhibit 1 to your report, what did you 15 do to verify their work? 16 Again, we just took the exhibit 17 directly from Dr. backup to his report. 18 It wasn't an independent test that we did. It 19 20 was just reporting what Dr. himself found but didn't include in his report. 21 22 But you didn't prepare Exhibit 1, 23 right, to your report? 24 You mean personally did I create the exhibit physically, as opposed to the idea of 25

```
showing that his own backup looks very different from the way he reported his results in the report? If that's what you're asking, yes, I did not physically prepare the exhibit.
```

- Q. So if you didn't prepare the exhibit, what did you do, if anything, to verify the work of whoever did prepare Exhibit 1 to your report?
- A. Because the work, again, is taken directly from Dr. backup.

I mean, did I check whether every number is transcribed correctly? No, I didn't. I assume we usually have some internal checking process, so I assume that was done.

But this is -- again, these are not a matter of any independent analysis that we did other than looking at what Dr. found as revealed in his backup and just moving those findings from the backup to the exhibit.

- Q. So referring to the second romanette on Exhibit 20 where you cite the 70.5 to 84.8 percent figure, where on Exhibit M do those numbers come from? Or, I'm sorry, where on Exhibit 1 to your report do those numbers come from?
 - A. Just one second, please.

```
123
               All right. If you look at Exhibit 1,
 1
      and you look at the first page of Exhibit 1, and
 2
 3
      you look at the top two lines going across for
      the very last vertical entry, percentage of
 4
      event days with significant returns and without
      significant returns, okay, you see the two
 6
 7
      numbers, 70.5 percent and 84.8 percent.
             So column M?
 8
          Q.
               Column M, which are itself -- just one
 9
10
      second, please.
               If you look at the pages behind the
11
12
      first page and you look at all the entries under
13
      exhibit -- under letter M, if everything is
      working correctly, you should find a low number
14
15
      of 70.5 and a high number of 84.8.
               So, let's see. I see the 84.8 and I
16
      see the 70.5.
17
               And the 84.8 number, that comes from
18
      the two-sided nonparametric specification of
19
2.0
      model one?
21
          Α.
               That's correct.
               And how did you calculate the numbers
22
23
      in column M?
24
               You know, frankly, I can't remember if
      those calculations were by us to sort of -- to
25
```

```
124
 1
      take Dr. numbers and just translate them
      to percentages or whether they were in the
 2
      backup themselves. I just don't remember.
 3
          Ο.
               So is the number M the function of
 4
      comparing any two other columns on Exhibit 1?
               You know, again, I would have to check
 6
 7
      myself if the -- you know, I just have to check.
 8
          Q.
               Okay.
          Α.
               I'm not sure.
 9
10
               I think I figured it out how to do it,
      but I'm going to ask you to verify it for me.
11
12
      Okay?
13
          Α.
               Okay.
          MR. HANAUER: Would you mind passing this
14
15
      down.
16
          THE WITNESS: Yeah, I'm not going to use your
      little calculator or computer or whatever this
17
      is. I mean, you can represent whatever numbers
18
      you want to me based on your usage of this
19
20
      instrument. And if I can agree, I will, or if I
21
      can't agree, I'll say I need to independently
22
      verify it.
23
      BY MR. HANAUER:
24
               So if I ask you to type something into
      a calculator, you won't do that?
25
```

```
125
 1
               I will do it, I'm just not going to do
      anything more than type the numbers into the
 2
 3
      calculator.
               Okay. And I won't ask you to. Okay?
          Q.
          Α.
               Okay.
               So I think that the way you got to
 6
 7
      column M is to divide column F by column D.
 8
               Can you try doing that for model 1,
      two-sided nonparametric?
 9
10
          Α.
               Yeah, you know, for --
          MR. FIGEL: I object to this.
11
12
               Mr. Hanauer, you obviously have a
13
      calculator. You could have done it before this.
14
      You can represent to him what the arithmetic is.
15
      I don't think it's an appropriate use of
      deposition time to have him go through a
16
      rhetorical exercise of using a calculator.
17
          THE WITNESS: Well, you know, for whatever
18
      it's worth, I do think that is what it is. I
19
20
      was just looking at the -- eyeballing the data.
21
               But I can't perform the calculation in
22
      my head, and I don't want to use your
23
      calculator. But that is the way it looks to
24
      me.
25
```

```
126
                       (Whereupon, Deposition
 1
                       Exhibit DF-19 was marked for
 2
 3
                       identification.)
          MR. FIGEL: As I suspected, you've already
 4
      done the math, so we'll take your
      representations about the arithmetic.
 6
 7
          MR. HANAUER: I've been told you may not want
      the witness using a calculator.
 8
      BY MR. HANAUER:
 9
10
               So, again, if I'm trying to figure out
      how you arrived at column M, is it safe to say
11
      that you divided, at least for the two-sided
12
13
      nonparametric portion of model 1, did you divide
      column F by column D?
14
15
               You know, as I said, I think so. I
      mean, that's what I thought so before you gave
16
      me this sheet. I didn't perform these
17
      calculations so it looks right to me. But, you
18
      know, obviously, I want to have a chance to
19
2.0
      check it myself.
21
               And that's why I put a calculator in
      front of you.
22
23
               Yeah, but I don't want to use your
24
      calculator and I don't want to do these
      calculations on the fly.
25
```

```
127
               That's the way it looks to me. I'm
 1
      willing to say that much.
                                 That's what I think.
 2
 3
               But to be a hundred percent sure, I'd
      want to check myself.
 4
               Okay. Well, maybe if we're -- when we
      have a break and you can use whatever instrument
 6
      you feel is appropriate, if you think my math is
 7
      wrong, please let me know.
 8
          MR. FIGEL: I have a proposal, Mr. Hanauer.
 9
10
      We'll take your representation that you've done
      the math correctly. I will do a parallel check.
11
12
      If I see something, I will bring that to your
13
      attention.
               I just don't think it's fair to ask the
14
15
      witness to use an unfamiliar calculator and do
      mathematical calculations on the record.
16
17
          MR. HANAUER: Okay.
          THE WITNESS: And just to be clear, I'm not
18
      suggesting that I think your math is wrong. I
19
20
      didn't say that.
      BY MR. HANAUER:
21
               Well, there's a good chance it could
22
23
      be, but that's neither here nor there.
24
               So column M, it looks like that
      calculates the frequency of event days without
25
```

```
128
 1
      significant returns among all event days.
               Is that accurate?
 2
 3
          Α.
               That's the way it looks.
               And are you offering the opinion
 4
          Q.
      that --
 5
               Actually, can you just hold on for one
 6
          Α.
      second. There may be a simpler answer to this.
 7
 8
               And I apologize for not thinking of
      this right away. If you look at the last page
 9
10
      of Exhibit 1, there is a legend that tells you
      how every column is calculated.
11
12
               And column M is column F divided by
13
      column D.
14
          Q.
               There we go.
15
               So having that --
               It's on -- in other words, it's on the
16
      exhibit.
17
               Exhibit 1 to your report?
18
          Q.
             Correct.
19
          Α.
20
          Q.
               So on Exhibit 1 to your report, does
      \operatorname{column} M calculate the frequency of event days
21
22
      without significant returns among all event
23
      days?
24
               I mean, column M calculates whatever is
      that's reflected on column M, which is what's
25
```

```
129
 1
      stated.
               So that would be significant -- the
 2
 3
      frequency of significant returns, that's column
      F, right? I'm sorry.
 4
               So column F is event days without
      significant returns?
 6
 7
          Α.
               That's right.
               And column D is event days total?
 8
          Q.
          MR. FIGEL: Objection.
 9
10
          THE WITNESS: Again, this is -- just to be
      clear, this is Dr. backup. It's not our
11
      calculation. This is reporting what he found --
12
13
      what he did based on his determination as to
      what days counted and what days didn't count and
14
15
      how you separate the days in different
      categories in his subjective opinion.
16
               But column D is -- again, the number of
17
      the event days varies depending on which
18
      specification you're looking at. Because for
19
20
      some specifications, there were more trading
      days -- or more days and therefore more event
21
22
      days than others. He discusses that in his
23
      report.
24
               But with respect to the first
      regression specification on page 2 of 6, there
25
```

```
130
 1
      are 105 -- according to Dr. 105 total
      event days; 16 of them have significant returns,
 2
 3
      according to Dr. 89 of them do not have
      significant returns.
 4
               Again, I'm just going to say, again,
      this is accepting Dr. conclusions and
 6
      analysis at face value and ignoring the
 7
 8
     methodological flaws that exist. But these are
     his reports -- these are his results, rather, as
 9
10
     reported in his backup.
     BY MR. HANAUER:
11
12
              Have you ever prepared an event study
13
     as a testifying expert that relies on the metric
     frequency of event days without significant
14
15
      returns among all -- among all event days that
     relies on that metric to establish or disprove
16
17
      the relationship between public announcements
     and the price of a security?
18
             Well, that was sort of a compound
19
20
     question.
21
               The closest thing that I can think of
      is what I've said we've done in a number of
22
23
     different insider trading cases, which I do
24
     recall, of looking at some total set of days
     that were at issue in the case and looking at
25
```

```
131
 1
      the days when there were price movements or were
     not price movements and were trades -- was
 2
 3
     trading around those days, there was not trading
      around those days, and the various comparisons
 4
      that you get performing that analysis.
               And that was -- and if I were to ask
 6
 7
     you to name a case --
 8
               The only name that came to me was Billy
          Α.
     Bob Harris. But I do think there are other
 9
10
      cases as well.
          Q. Are you aware of any academic or
11
12
      scholarly literature that supports using that
13
     metric to support an event study?
14
          MR. FIGEL: Objection.
15
          THE WITNESS: I don't know what you mean,
      "support an event study." These are the --
      these are Dr. results of his event study.
17
     They neither support or don't support. It's
18
     just what the event study shows, according to
19
20
     Dr.
21
     BY MR. HANAUER:
               Are you aware of any academic or
22
23
      scholarly literature that supports using that
24
     metric as a way to criticize an event -- the
     results of an event study?
25
```

```
A. I'm not criticizing the results of an event study. The results are what the results are.
```

Again, putting aside the methodological criticisms that I have, these are the results that are reported. What I have said is the way that Dr. reported these results, his own results, with just checks and not showing how weak the relationships are even if under his test choosing the days that he wants to look at, ignoring the vast majority of days, you know, defining his own test of statistical significance, these are just all his results just taken at face value.

And I do think both because of the subjectivity, the fact that there was an inefficient market, the fact that he's only looking at one-sided events, he's not looking at negative events, as well as some other methodological criticisms that are even more fundamental, for the most part, I'm ignoring all of those right now.

I'm just looking at, this is what he found. But he didn't report this is what he found. What he reported was a series of check

```
133
      marks. And I think the check marks are
 1
      misleading in light of the actual results of the
 2
 3
      event studies that he himself performed.
               Let me ask you about column L on
 4
          Ο.
      Exhibit 1 to your report.
          Α.
               Okay.
 6
 7
               And that represents the frequency of
          Ο.
      event days that had significant returns?
 8
          Α.
               That's right.
 9
               And it looks like -- does Exhibit 1
10
      have -- contain the data you would need to
11
12
      calculate the frequency of nonevent days with
13
      significant returns?
14
          MR. FIGEL: Objection.
          THE WITNESS: Well, if you look at columns G,
15
      H, and I, if I understand the question
      correctly, they deal with the number of nonevent
17
      days and the number of significant returns and
18
      the number of nonsignificant returns, according
19
2.0
      to Dr. in his own event study in all these
21
      -- in all these different specifications.
      BY MR. HANAUER:
22
23
               So if I wanted to find the frequency of
24
      nonevent days with significant returns using
      Dr. data, would I divide column H by
25
```

```
134
 1
      column G?
               The number of nonevent days with
 2
 3
      significant returns, that's the question? Yes,
      I think that's what you would do.
 4
               So I'd like to refer you to model 1,
      two-sided nonparametric specification.
 6
 7
          Α.
               Okay.
               So if I wanted to divide H by G for
 8
          Q.
      that model, would it be 104 divided by 2,264?
 9
10
               I believe so, yes, that's what it would
      be.
11
12
               And if we look at exhibit -- my Exhibit
13
      DF-19, it says 104 divided by 2,264 equals
      4.6 percent?
14
15
               That's what it looks like.
              Do you have any reason to doubt that
16
      calculation?
17
             No, I don't.
18
          Α.
               Are you familiar with the concept of
19
20
      false positives in statistical tests?
21
          Α.
               Yes.
               What is the typical expectation for
22
23
      false positives in a statistical test?
24
          MR. FIGEL: Objection.
          THE WITNESS: At the level of generality of
25
```

```
135
      your question, I'm not sure there is an
 1
 2
      expectation.
      BY MR. HANAUER:
 3
               Isn't the level of -- you would
 4
          Q.
      typically expect false positives in statistical
      tests between five and ten percent?
 6
 7
          Α.
               Those are conventional levels of
      statistical significance.
 8
               In event studies, I'm not sure they
 9
10
      would apply always, no matter what the test was.
      But generally you would expect to find,
11
12
      depending if you had a one-tailed test or a
13
      two-tailed test, a price reaction that's
      statistically significant randomly, even if not
14
15
      attributable to, not correlated with or caused
      by a particular event. Solely by chance, in
16
      other words.
17
               So if we think about that 4.6 percent
18
      number of the nonevent days with significant
19
2.0
      returns, is it possible that some of those
21
      significant nonevent observations with
22
      significant returns could be false positives?
23
          MR. FIGEL: Objection.
24
          THE WITNESS: I'm not sure I'd call them
      false positives. I mean, they are what they
25
```

```
136
 1
      are.
          MR. HANAUER: Now a good time for a break?
 2
 3
          MR. FIGEL: Sure.
          THE VIDEOGRAPHER: We are going off the
 4
 5
      record. The time is 1:11 p.m.
                      (Whereupon, a recess was had at
 6
 7
                       1:11 p.m., after which the
                       deposition was resumed at
 8
                       2:22 p.m. as follows:)
 9
10
          THE VIDEOGRAPHER: We are back on the record.
      The time is 2:22 p.m.
11
12
               You may proceed.
13
      BY MR. HANAUER:
               Professor Fischel, could I ask you to
14
      please look at page 18 of your report.
15
               And do you see a heading D in between
16
      paragraphs 30 and 31?
17
             Yes, I do.
18
          Α.
              Does Dr. report offer the
19
20
      opinion that XRP holders are engaged in a common
      enterprise with Ripple?
21
22
               He doesn't say those words, as far as I
23
      can recall.
24
               Did you perform any work or analysis to
      determine whether or not XRP holders are engaged
25
```

```
in a common enterprise with Ripple?
```

A. Well, I would say one of my methodological criticisms of Dr. is his entire event study proves nothing about any of the competing claims in this case. Not only it doesn't prove anything, it doesn't shed any light on any of the competing claims in this case.

And to the extent that one of the claims in this case related to whether or not XRP is a security, which is clearly a legal question, according to what Dr. has done, his whole approach, even the way he sets up his hypothesis that he's testing in paragraph 30, has nothing to do with anything in terms of the disputed issues in the case.

And so that's a really basic criticism, but it's really a basic methodological criticism. In other words, if you wanted to show that this event study that Dr. did sheds some light on any of the issues in the case, you would want to say that these results that he finds, apart from some of the other methodological criticisms, show something of consequence in terms of the relationship between

```
XRP and Ripple that does not exist in multiple other contexts.
```

So just to give one example, if you -I think I mentioned this earlier. If you took
De Beers and you took seven years of price -seven years of announcements and seven years of
analysis of the prices of diamonds, I haven't
done the analysis, but I have no doubt that if
you took hundreds of announcements over seven
years, you would find some announcements that
had a price effect on diamonds.

And that would be true about oil. I even mentioned earlier about a less direct example, but, nevertheless, the same point about a food -- a food manufacturer like Kellogg's and a product like, you know, the price of Corn Flakes.

And so to the extent that the event study doesn't have any claim -- doesn't have any relationship, doesn't even purport to have any relationship to any of the issues that are relevant in an economic or legal sense to what's disputed in the case, including the issue of whether Ripple and XRP are in a common enterprise, I think that's a really major

```
139
     methodological flaw.
 1
 2
              Okay. And I understand that your --
     you disagree with Dr. conclusion -- well,
 3
     you disagree with a contention that there's a
 4
      common enterprise, right?
         MR. FIGEL: Objection.
 6
 7
          THE WITNESS: Well, common enterprise is, in
     part, a legal term. But, you know, whatever it
 8
     means as a matter of economics, Dr. does
 9
10
     not show that the relationship between Ripple
      and XRP is any different than the relationship
11
12
     between De Beers and diamonds or oil companies
13
     and oil or food manufacturers and food prices,
14
     and doesn't even purport to.
15
               He never even states what he's testing
      in ways that distinguish the relationship
17
     between De Beers -- excuse me, the relationship
     between Ripple and XRP from all of these other
18
19
      examples.
2.0
               You know what, when I looked at
     paragraph 30 of his report -- and I remember the
21
22
     number -- I think all you have to do is look at
23
      that paragraph and realize that the entire
      exercise that Dr. is conducting is really
24
      fundamentally flawed from a methodological point
25
```

```
140
 1
      of view.
               Because, for example, he doesn't have
 2
 3
      any control group. If you wanted to do this in
      some kind of an academic way, you would want to
 4
      try and show that the relationship -- forgetting
      all the subjectivity and the lack of efficient
 6
 7
      markets, you'd want to show that the
 8
      relationship between Ripple and XRP, for
      example, is different than the relationship
 9
10
      between other cryptocurrencies, between their
      founders' companies and price movements.
11
12
               You'd want to show that it's different
13
      from commodities, such as diamonds.
14
      BY MR. HANAUER:
15
               And excuse me, Professor, I think
      you're steering a little from my question, so if
      you don't mind, I'm going to try and rephrase.
17
          MR. FIGEL: Objection. I'd like the witness
18
      to be able to finish his answer. You
19
20
      interrupted him.
21
          MR. HANAUER: Well, I move to strike his
      answer as nonresponsive.
22
23
          MR. FIGEL: Well, I'd like to have him finish
24
      it and then you can make whatever motion you'd
25
      like.
```

BY MR. HANAUER:

- Q. Is there anything else you'd like to add to the question of: You disagree with the contention that there's a common enterprise?
- A. I think for the reasons that I just stated, and the lack of a control group, a lack of a comparison.

Again, that's just a basic and fundamental methodological flaw because it sheds no light on this relationship, has any different characteristics than an infinite number of other relationships that have nothing to do with securities or cryptocurrency.

And so in terms of what it has to do with common enterprise, to the extent that there's some intended relationship between what Dr. has done and the -- to shed any light on the relevant issues that need to be decided in this case, including the issue of common enterprise, he hasn't done that. He doesn't purport to do that.

And, again, that just fails all basic recognized standards for proper methodological approaches. And that's a fundamental defect.

Q. So I understand that you disagree with

142 1 methodology. What I'm asking you, though, is: Did 2 3 you perform any affirmative work or testing or analysis to try and test whether XRP holders are 4 engaged in a common enterprise with Ripple? 6 MR. FIGEL: Objection. 7 THE WITNESS: You know, as I've indicated multiple times, my report is a rebuttal report 8 to Dr. 9 10 The conclusion that I've reached is for reasons that I've just stated and other reasons 11 12 that I've previously stated or are contained in 13 my reports, I don't believe that Dr. entire analysis, because it is so methodologically 14 15 flawed and violates all standards of appropriate methodology and peer-tested -- and peer-reviewed 16 journals, sheds any light on the question of 17 whether or not the relationship between Ripple 18 and XRP is one that you could call a common 19 20 enterprise. 21 BY MR. HANAUER: But did you do any testing on your own 22 23 to answer that question? 24 MR. FIGEL: Objection, asked and answered two or three times now. 25

```
143
 1
          THE WITNESS: Yeah, I don't have anything to
      add. The analysis that I did on my own was my
 2
      analysis and critique of Dr. That's what
 3
      T did.
     BY MR. HANAUER:
               Is there an accepted economics
 6
 7
      definition of common enterprise?
 8
               Again, you've asked me this question in
          Α.
      connection with other terms. I don't know if
 9
10
      I'd say there's an accepted definition. There's
      frequently an understanding of what a common
11
12
     enterprise is.
13
          Q.
              In the economics literature?
             As a matter of economics.
14
15
              So if I wanted to test, from an
16
      economic perspective, whether a common
      enterprise exists or not, what would I do?
17
          MR. FIGEL: Objection.
18
          THE WITNESS: Well, it depends a little bit
19
20
     on the context. But one thing you would want to
21
     do is you'd want to see if the relationship
22
     between the parties creates some commonality in
23
     terms of what's good news for one is good news
24
     for the other and what's bad news for one is bad
     news for the other.
25
```

```
144
               Again, I don't know if I'd call that an
 1
      accepted definition, but that's a usual economic
 2
 3
      understanding of the term common enterprise.
      BY MR. HANAUER:
 4
               And are you offering the opinion that
      XRP holders are not engaged in the common
 6
 7
      enterprise with Ripple?
 8
          MR. FIGEL: Objection.
          THE WITNESS: The opinions that I'm offering
 9
10
      are exactly what I've said and what's contained
      in my report.
11
12
      BY MR. HANAUER:
13
               I'm asking a yes or no question.
14
          MR. FIGEL: Objection.
          THE WITNESS: You know, you told me -- you
15
      cut me off before, so I don't want to repeat
16
      what I just said. But if you want me to repeat
17
      it again, I will.
18
               I'm offering the opinion that the
19
20
      analysis that Dr. has performed is
21
      fundamentally flawed, violates various basic
22
      requirements of standard methodology established
23
      in peer-reviewed journal after peer-reviewed
24
      journal.
25
               And for all those reasons, including
```

145 ones that I've stated in my previous answers and 1 the ones contained in my report, I believe his 2 3 report sheds no light whatsoever on the issue of whether or not Ripple and XRP are engaged in a 4 common enterprise, however common enterprise is defined. 6 7 BY MR. HANAUER: 8 So the question you just identified Q. "engaged in a common enterprise," why is that 9 10 question even relevant to this case? MR. FIGEL: Objection. 11 12 THE WITNESS: Well, whether it's legally 13 relevant or not is a question for the court to decide, not for me to decide. 14 15 I mean, I think those words are used in the Howey test itself, you know. But, you know, 16 again, I'm not offering any legal opinions. 17 The basic opinion I'm offering is that 18 if you look at the test that Dr. claims he 19 20 is performing, look at paragraph 30 -- I'm happy 21 to read it into the record if you want me to 22 read it into the record -- it's a generic 23 question that has nothing to do with the 24 relationship between Ripple and XRP in a way that's any different from the relation of 25

```
146
      countless other firms and products of firms or
 1
      investments in firms, however you want to phrase
 2
 3
      it.
      BY MR. HANAUER:
 4
               So you cite to Howey. Does Howey use
      the terms "engaged in a common enterprise"?
 6
          MR. FIGEL: Objection.
 7
          THE WITNESS: Well, you know that better than
 8
      I do. But let's see what -- I quoted it, so I
 9
10
      don't want to paraphrase it.
      BY MR. HANAUER:
11
12
               I want to make sure we're right on the
13
      terminology here.
               The words "common enterprise" appear in
14
      paragraph seven.
15
16
               I asked you engaged in a common
      enterprise. Is that language anywhere in Howey?
17
          MR. FIGEL: Objection.
18
          THE WITNESS: I don't see those exact words
19
20
      in Howey.
      BY MR. HANAUER:
21
               And, in fact, Howey --
22
23
             At least not in this quote that I have.
24
          Q.
              And, instead, Howey uses the words
      "invests money in a common enterprise," correct?
25
```

A. That's what it says.

2.0

- Q. Are you offering an opinion whether or not XRP purchasers invested money in a common enterprise?
- A. Well, I think if you're asking whether I'm expressing an opinion whether holders of XRP invested in Ripple, you know, there is certainly not a one-for-one correlation there.
 - Q. That wasn't my question.

Are you offering an opinion whether or not holders of XRP invested money in a common enterprise?

- A. Your question doesn't really make any sense. Ripple is the common -- I don't understand. What is your definition of what the common enterprise is in your definition -- in your question?
- Q. Unfortunately, I'm the one that asks the questions.
 - A. Then I don't understand the question.
- Q. What I'm trying to determine is why are you using the term "engaged in a common enterprise" when the test is "invested money in a common enterprise"?
- 25 MR. FIGEL: Objection.

148 THE WITNESS: You know, as I said, I'm not 1 offering any legal opinions. The judge can 2 decide if what I said about a criticism -- a 3 fundamental criticism in Dr. methodology 4 because he doesn't distinguish -- among the other fundamental methodological criticisms 6 7 because he doesn't distinguish in any way the 8 relationship between Ripple and XRP from the relationship between De Beers and diamonds, oil 9 10 companies and oil, and countless other examples, and he doesn't even claim to. 11 12 And if you look at his paragraph 30, 13 it's generic. It applies to every single one of the examples that I just mentioned. The judge 14 can decide if that's a valid criticism or not a 15 valid criticism, but that's my opinion. BY MR. HANAUER: 17 Did Ripple pool the money it received 18 from selling XRP to different purchasers? 19 2.0 MR. FIGEL: Objection. THE WITNESS: I don't know. I don't have an 21 opinion on that one way or the other. 22 23 BY MR. HANAUER: 24 Did Ripple deposit the funds it received from selling XRP into a single bank 25

```
149
      account?
 1
          MR. FIGEL: Objection.
 2
          THE WITNESS: I don't know. I have no
 3
      opinion on that one way or the other.
 4
      BY MR. HANAUER:
               Did Ripple separately manage the funds
 6
      it received from different XRP purchasers?
 7
 8
          MR. FIGEL: Objection.
          THE WITNESS: I don't know. I have no
 9
10
      opinion on that one way or the other.
      BY MR. HANAUER:
11
12
               Did Ripple use the money it received
13
      from selling XRP to fund its operations?
14
          MR. FIGEL: Objection.
15
          THE WITNESS: You know, at one point I think
      I've seen some data on that, on the sources of
      funds that Ripple had. You know, I guess all I
17
      can say is I've seen some funds -- I've seen
18
      some data on that, but I haven't really
19
20
      conducted any study of it.
      BY MR. HANAUER:
21
               Did Ripple use the money it received
22
23
      from selling XRP to fund the construction of the
24
      Ripple ecosystem?
25
          MR. FIGEL: Objection.
```

```
150
          THE WITNESS: It really would be the same
 1
 2
      answer. I think I've seen some data on that,
 3
      but I haven't really studied that question.
      BY MR. HANAUER:
 4
               Did Ripple endeavor to increase the
      range of goods and services that holders of XRP
 6
      would find beneficial to buy and sell using XRP?
 7
 8
          MR. FIGEL: Objection.
          THE WITNESS: Same answer.
 9
10
      BY MR. HANAUER:
               Did the success of the digital asset
11
12
      ecosystem that Ripple built drive demand for
13
      XRP?
14
          MR. FIGEL: Objection.
          THE WITNESS: The phrase "drive demand" is
15
      too vague, so I'm not sure how to answer the
17
      question.
      BY MR. HANAUER:
18
               Well, if Ripple creates a product that
19
20
      uses XRP to make the product work, is Ripple
      driving demand for XRP by increasing the use of
21
      that product?
22
23
          MR. FIGEL: Objection.
24
          THE WITNESS: You know, I guess you could say
      that. But that's exactly the same generic point
25
```

that doesn't distinguish the relationship

between Ripple and XRP from countless other

relationships that have nothing to do with

securities or allegations about securities.

It's just -- presumably when a firm creates a

product, it's frequently the case or typically

the case that by creating the product the firm

is taking steps to increase the demand for the

product. So by definition -- because if the

product didn't exist, there wouldn't be demand

for it.

But that's exactly the criticism I'm

making of Professor He has this

completely generic test that has nothing to do

with anything that distinguishes this

relationship from countless other relationships,

and he doesn't even claim that it does.

And your question is, you know, subject to exactly the same response, that, yes, Ripple, by creating XRP increases the demand for XRP by definition because XRP didn't otherwise exist.

And that's true for every single -- maybe overstating slightly -- but as a general matter, that is true for every single creator of a product where the success of the product is

```
152
 1
      based in some way on market acceptance of the
 2
      product.
 3
      BY MR. HANAUER:
               Are you offering any opinion on what
 4
      drove demand for XRP?
          MR. FIGEL: Objection.
 6
 7
          THE WITNESS: Not a separate opinion. But I
      discuss a lot of different examples of different
 8
      ways, I guess you could say, in which demand for
 9
10
      XRP existed.
      BY MR. HANAUER:
11
               Does Dr. report offer the
12
          Q.
13
      opinion that an event study can establish
      whether or not offers or sales of securities
14
15
      took place?
16
          MR. FIGEL: Objection.
          THE WITNESS: Again, I don't think he uses
17
      those words. But as I've tried to indicate,
18
      presumably, he didn't go to all this effort to
19
20
      conduct a study that has no relationship to the
      issues in the case. And one of my fundamental
21
22
      criticisms is exactly that; that his study in no
23
      way distinguishes the relationship between
24
      Ripple and XRP from countless other
      relationships that have nothing to do with the
25
```

```
153
 1
      facts and circumstances of this case, let alone
      have nothing to do with the issue whether
 2
 3
      something is a security.
      BY MR. HANAUER:
 4
               And I guess you used the example of an
      oil company, right?
 6
 7
              As one example, that's right.
          Α.
               Does any oil company own the majority
 8
          Q.
      of all the oil in existence?
 9
10
          MR. FIGEL: Objection.
          THE WITNESS: Not that I know of.
11
      BY MR. HANAUER:
12
13
               Did any oil company or its founders
      create oil?
14
15
               You mean discover oil or you mean
      chemically create? I'm not sure exactly what
17
      you mean.
          Ο.
              The latter.
18
               Did they chemically create oil? Not to
19
20
      the best of my knowledge, but I don't really
      know for certain.
21
22
             Does oil have use independent of
23
      trading or speculation?
24
          Α.
               Trading or speculation? Yes, it does.
          Q. Are you offering an opinion in this
25
```

```
154
      case whether uses of XRP exist other than for
 1
      trading or speculation?
 2
 3
          MR. FIGEL: Objection.
          THE WITNESS: I'm not -- you know, I assume
 4
      you're not suggesting any of these questions
 5
      have anything to do with Dr. study. I
 6
 7
      mean, that's what I'm responding to. So I just
      want to make sure the context of my answers is
 8
      clear.
 9
10
      BY MR. HANAUER:
               Okay. Can you answer my question?
11
12
          Α.
             I did answer it.
13
              Are you offering an opinion in this
      case on any use of XRP other than for trading or
14
15
      speculation?
16
          MR. FIGEL: Objection.
          THE WITNESS: I would say I have some
17
      background familiarity with that issue, but I am
18
      not expressing any separate opinion on that
19
2.0
      issue.
21
      BY MR. HANAUER:
22
               Are you offering an opinion about the
23
      date by which any of Ripple's products that use
24
      XRP became commercially operational?
          MR. FIGEL: Objection.
25
```

```
155
          THE WITNESS: No, I'm not.
 1
      BY MR. HANAUER:
 2
               Are you offering the opinion that XRP
 3
          Q.
      cannot be offered or sold as an investment
 4
      contract -- let me rephrase.
               Are you offering the opinion that XRP
 6
      cannot be offered or sold as an investment
 7
      contract under any circumstances?
 8
          MR. FIGEL: Objection.
 9
10
          THE WITNESS: That sounds like a legal
      opinion. I'm not offering any legal opinions on
11
12
      any subject.
      BY MR. HANAUER:
13
               Can I ask you to look at page 12 of
14
      your report.
15
16
          Α.
               Okay.
               So you talk about in paragraph -- in
17
      section B of your report, you talk about
18
      confounding news or confounding information.
19
2.0
          Α.
               That's right.
               And I'm trying to figure out what you
21
          Ο.
22
      mean by "confounding news."
23
               Are you talking about public
      announcements that Dr. identified but
24
      didn't place on one of the 105 event days, or
25
```

```
156
      are you talking about announcements from those
 1
      105 event days that weren't really -- that, in
 2
      your opinion, weren't really announcements about
 3
      Ripple's efforts?
 4
          MR. FIGEL: Objection.
          THE WITNESS: I don't think either one of
 6
      those alternatives fairly describes the content
 7
      of this particular section of my report.
 8
      BY MR. HANAUER:
 9
10
               Okay. Well, then why don't you tell me
      what you mean by "confounding information" as it
12
      pertains to opinion B on page 2 of your report.
13
          Α.
               All right. Opinion B has a discussion
      of two different types of confounding
14
15
      information.
               One type is a fundamental problem that
16
      I described earlier of -- many of Dr.
17
      announcements are not -- to the extent there is
18
      a claim of a price reaction that's correlated
19
2.0
      with those announcements are not solely a
21
      product of Ripple's entrepreneurial efforts, but
      rather are a combination of Ripple's efforts and
22
23
      new information about supply and demand in the
24
      marketplace.
               And as I said earlier, there is
25
```

```
basically a continuum from situations where both effects are occurring and it's really difficult or really impossible to disentangle them.
```

In other situations where Professor --

excuse me, Dr. himself recognizes the problem and just states as a matter of fact that it's not clear in some of his examples whether Ripple is even involved in the event itself that Ripple is announcing. That's closer to the example that I gave about the difference between creator of information and reporter of information. So that's one type of confounding information.

And the other type really relates to the fact that XRPs are not traded in an efficient market. And when you have information that's not traded in an efficient market, you don't really have a definitive theory of when prices are going to react to that information, whether they're going to react to that information without bias.

And, therefore, when you have confounding events, other I should say compounding news because I don't mean to limit myself to Dr.

```
158
     you have other news, even news that's contained
 1
      in Dr. -- I think it's Exhibit C with his
 2
 3
      500-plus announcements -- within a window -- and
      I describe different windows around the
      so-called event day -- because you're in a world
      of inefficient markets, you can't really
 6
 7
      attribute, even as a correlation, the price
     reaction to the event that Professor --
 8
      excuse me, Dr. is claiming that there is a
 9
10
     correlation because you can't exclude the
     possibility in an inefficient market.
11
12
               The other news announcements in the
13
     different windows of time that I describe in
14
     Exhibit 2 also are responsible, at least in
     part, as well as other announcements in --
15
     outside even of the windows that I identified
16
17
     that could have had an effect on the prices that
     Dr. claims are correlated with particular
18
      announcements -- with announcements on
19
20
     particular event days.
          Q. Did you perform any work or analysis to
21
      quantify the impact of confounding news on XRP
22
23
     prices?
24
         MR. FIGEL: Objection.
          THE WITNESS: Again, I think the whole point
25
```

159 of an inefficient market is you can't quantify 1 it because you don't have a theory of how 2 3 quickly prices react to information. That's one of the characteristics of an inefficient market. 4 So what you can do, what I did do is identify other news that occurred in the same 6 7 time period in the different windows that I describe in Exhibit 2 at the same time as the 8 information that Dr. claims as an event day 9 10 that's correlated with a particular price 11 reaction. 12 And that, as I stated in my report, 13 really underestimates the significance of the fact that XRPs do not trade in an efficient 14 market. Because in an inefficient market, there 15 is no way to say, there is no way to conclude that those confounding announcements also didn't 17 have an effect on the price that Dr. claims 18 is correlated with a particular announcement on 19 20 a particular event day. BY MR. HANAUER: 21 If you had wanted, could you have been 22 23 capable of checking for the -- if you had 24 wanted, could you have been capable of trying to quantify the effect of confounding news? 25

160 MR. FIGEL: Objection. 1 THE WITNESS: I think under the facts and 2 3 circumstances of this case, given the fact that XRP is trading in an inefficient market, I think 4 it would be very difficult. I'm not sure how you do it. 6 BY MR. HANAUER: 7 8 Did you perform any work or analysis to determine whether Dr. results would 9 10 change if he excluded confounding news days? No, I didn't perform any such analysis 11 12 since I think -- if you look at the two 13 different types of confounding information, I'm not even sure how you would decide what to 14 15 exclude. So going back to I think the first of 16 the two definitions you talked about in 17 describing confounding, the one where you said 18 the Ripple news announcement, it's more about 19 20 supply and demand than Ripple's efforts -- do you understand what I'm talking about or 21 referring to? 22 23 I understand what you're talking about, 24 but that's not an accurate paraphrase of what I said. 25

```
Q. Okay. You understand which of the versions of confounding I'm referring to?
```

- A. Yes, I do understand that.
- Q. Okay. So for those events, how did you determine whether a Ripple announcement related to, on one hand, Ripple's efforts, or the other information about the supply, demand, or expectation of market participants other than Ripple?

MR. FIGEL: Objection.

THE WITNESS: Again, that's a mischaracterization of what I said. It's not a matter of one or the other; it's both are occurring simultaneously, in effect. Because an announcement can reveal an effort by Ripple and it can also reveal information about supply and demand in the marketplace. So they can both be occurring at the same time.

And, again, it is like the problem of confounding information in more traditional event studies where, when you have confounding information, when you can't disentangle, it makes it impossible to reach a conclusion about the -- what part of the price reaction is attributable to one aspect, one part of the

confounding information versus another part.

Sometimes there is external sources of information that you can look to to, you know, possibly reach some judgments depending, you know, obviously on the relevant facts and circumstances. But sometimes it's just impossible. And you have to recognize that, and that's something that Dr.

But, again, I want to emphasize, sometimes it's possible to say something stronger than that. And I keep coming back to, you know, the example of an event which produces news that's announced by a third party. And the announcement by a third party can be what causes the price reaction, but it's just disclosing events that are not caused by the party disclosing the information.

In a situation like the example that I used before of third parties deciding to allow XRP to trade on their platforms, it's similar to that. Ripple is announcing that other parties are now allowing XRP to trade on their platforms. And Dr. somewhere has a footnote where it's either that example or some other example where he says it's not even clear

```
163
      that Ripple had any involvement in any of the
 1
      events that it's announcing.
 2
 3
               And those type of situations, which are
      part of Dr. Ripple's [sic] 105 days, the days
 4
      that he considers relevant as opposed to the 400
      or so that he, for all practical purposes,
 6
 7
      ignores, that really highlights the problem,
 8
      those type of situations. Because those
      situations are not only compounded, but they
 9
10
      really highlight the distinction between, as I
      said, creating information and reporting
11
12
      information, which professor -- excuse me,
13
      Dr. ignores. And that's the problem.
      BY MR. HANAUER:
14
15
               So in Exhibit C -- or I'm sorry,
      Appendix C to Dr. report, he actually
      lists all the news announcements he covered in
17
      his event study?
18
               That's my understanding.
19
2.0
          Q.
               And did you read the contents of all
      those news announcements?
21
               No, I did not.
22
          Α.
23
               Did you read the contents of any of
24
      those news announcements?
               You know, at least parts that Dr.
25
          Α.
```

```
164
      quoted in his report.
 1
               Only the ones he quoted in his report?
 2
 3
          Α.
               I think so. I don't remember doing any
      kind of systematic investigation of the ones
 4
      that he either ignored entirely or even the ones
      that he used as part of event days.
 6
 7
               I guess I read what he considered
      relevant.
 8
             Well, do you know whether Dr. read
 9
10
      the entirety of all those reports?
          MR. FIGEL: Objection.
11
12
          THE WITNESS: No. You would have to ask him.
      BY MR. HANAUER:
13
             Are you offering any opinions on the
14
      efforts Ripple took to increase demand for XRP?
15
          MR. FIGEL: Objection.
16
          THE WITNESS: Not in isolation, no, I'm not.
17
      BY MR. HANAUER:
18
          Q. Are you offering any opinions on
19
20
      whether Ripple's efforts affected demand for
21
      XRP?
22
          MR. FIGEL: Objection.
23
          THE WITNESS: I'm not offering a separate
24
      opinion on that subject.
25
```

```
165
      BY MR. HANAUER:
 1
               Could Ripple take efforts that would
 2
      increase demand for XRP?
 3
              Yes, obviously.
 4
          Α.
              Are you offering any opinions on the
      efforts Ripple took to impact supply of XRP?
 6
 7
          MR. FIGEL: Objection.
          THE WITNESS: Again, I have, you know, some
 8
      background in my report on what Ripple did with
 9
10
      respect to supply of XRP. That's like some of
      the other questions that you asked, part of
11
12
      background, part of the facts and circumstances
13
      of the case. But I'm not offering a separate
      opinion about it.
14
      BY MR. HANAUER:
15
               Are you offering any opinions on
16
      whether Ripple -- Ripple's efforts actually did
17
      affect the supply of XRP?
18
          MR. FIGEL: Objection.
19
2.0
          THE WITNESS: Again, I'm not offering any
21
      separate opinions about that. I have discussion
22
      of that in the background section of my report,
23
      but it's not a separate opinion.
24
      BY MR. HANAUER:
          Q. And all things being equal, from an
25
```

```
166
 1
      economics perspective, if demand for an asset
      stays flat and the supply of that asset goes
 2
      down, should we expect the price of that asset
 3
      to go up?
 4
          MR. FIGEL: Objection.
          THE WITNESS: Well, it would depend on the
 6
 7
      shape of the supply curve. But, you know,
      that's certainly a reasonable assumption that
 8
      that would happen frequently, I guess. I don't
 9
10
      know what else to say.
               But in any particular situation,
11
12
      obviously you'd have to analyze the relevant
13
      facts and circumstances and look at the data to
      form a conclusion.
14
15
      BY MR. HANAUER:
               Are you offering any opinions on the
16
      efforts Ripple took to increase the price of
17
      XRP?
18
          MR. FIGEL: Objection.
19
20
          THE WITNESS: No, I'm not, not as a separate
21
      opinion.
22
      BY MR. HANAUER:
23
             Are you offering any opinions on
24
      whether any of Ripple's efforts actually did
      affect XRP's price?
25
```

```
I think I said earlier that we did try
 1
 2
      and look at the biggest price reactions of XRP
 3
      and look at certain disclosures by Ripple at
      very -- at the same period as the price
 4
      reactions or very close to the price reactions.
               And I think I said it seemed
 6
      reasonable, with respect to that handful set of
 7
      price reactions, to conclude that there was at
 8
      least a correlation between the announcements
 9
10
      and -- with respect to those few announcements,
      those announcements and price reactions and
11
12
      even, you know, be stronger than that and, you
13
      know, at least as a working hypothesis, you
14
      know, conclude that there was likely a causal
      relationship.
15
               Are you offering any opinions on
16
      whether Ripple's efforts, independent of public
17
      news announcements, affected XRP's price?
18
          MR. FIGEL: Objection.
19
2.0
          THE WITNESS: I'm not offering any separate
      opinions on that subject.
21
      BY MR. HANAUER:
22
23
               Are you offering any opinions on the
24
      efforts Ripple took to increase the liquidity of
25
      XRP?
```

```
168
 1
          MR. FIGEL: Objection.
          THE WITNESS: Same answer.
 2
      BY MR. HANAUER:
 3
               Are you offering any opinions on how
 4
      liquidity of XRP affects its price?
          MR. FIGEL: Objection.
 6
 7
          THE WITNESS: No, I'm not.
      BY MR. HANAUER:
 8
               Can I ask you to look at paragraph 22
 9
10
      of your report.
11
          Α.
               Okay.
12
               And what do you mean when you say that
13
      [as read]: Statistically significant XRP
      returns are correlated with announcements
14
15
      related to the expected supply and demand for
      XRP or other market conditions?
16
               Well, I mean, there's a whole paragraph
17
      that describes it. I mean, there's a -- there's
18
      a couple of points.
19
2.0
               One, just like all the questions that
      you just asked me, the company's associated
21
22
      products want those profits to be successful in
23
      terms of whatever it is, increasing demand,
24
      increasing liquidity, increasing price,
      affecting supply.
25
```

So, again, there's no distinction between any of those outcomes or intentions by companies that in any way is linked to whether or not something is a security.

2.0

That's like the other things that I've already described, which are completely generic that have nothing to do with whether something is a security. And that's just a continual methodological flaw in Dr.

Q. I apologize because I think we're -you may not have understood the question or I
did a bad job of asking it.

Can I just ask you: What did you mean when you were referring to statistically significant XRP returns?

- A. Okay. That's a completely different question.
- Q. Yeah, and I'm sorry. That's the one I would like for you to discuss.
 - A. That's fine.

I meant returns that, in Dr.

event study, he found to be statistically

significant in either a parametric or a

nonparametric test in either a one- or a

two-tailed test.

- Q. And are you -- did you do any work or analysis that disputes that finding of statistical significance?
- A. You mean whether Dr. calculated statistical significance correctly using the model that he used?
 - O. Yes.

2.0

A. And the days that he chose? No, other than, you know, describing the extreme subjectivity of what he did and looking at positive results, not negative results.

I mean, there's a lot of criticisms, but the actual calculation that he did of what's a statistically significant return based on the model that he used, I didn't do any work to see whether his regression -- his regression result, given the regression that he used and the data that he used for the regression, that the data that he reported was an accurate description of the data resulting from the regression.

Q. And what was your methodology for trying to determine if an announcement related to supply, demand, or expectations of market participants on one hand or Ripple's efforts on the other?

- A. The methodology was to highlight how various announcements have both effects going on simultaneously. And some of the announcements, as I've said several times, and as Dr. himself concedes, are announcements about actions by third parties that have very little, if anything, to do with actions by Ripple itself.
 - Q. For Ripple's own announcements, what was your methodology for determining whether the announcement related to supply or demand, as opposed to Ripple's efforts?
 - A. It's basically what I've already said.
 - Q. Can you elaborate?

A. Yeah. I just highlighted how various announcements contain information about Ripple's efforts, as well as new information about supply and demand conditions in the marketplace where it's very hard, if not impossible, to disentangle those two.

But also, there are certain events that

Dr. includes in his event days where he

himself concedes that there's no obvious

relationship or any relationship between

Ripple's actions and the effect of the

```
172
      announcement that Ripple itself makes.
 1
 2
               For the announcements that you didn't
 3
      actually read, what was your basis for
     determining whether those announcements related
 4
      to supply or demand as opposed to Ripple's
      efforts?
 6
 7
          MR. FIGEL: Objection.
          THE WITNESS: Because I read how Dr. in
 8
     his report characterized them, his justification
 9
      for why he included them, and how he described
10
     them, and was able to reach the conclusions that
11
     I reached as described in my report.
12
     BY MR. HANAUER:
13
               Could another expert reasonably reach
14
      the conclusion that the announcements Dr.
15
      analyzed did, in fact, relate to Ripple's
      efforts as opposed to supply and demand?
17
         MR. FIGEL: Objection.
18
          THE WITNESS: That's, again, a
19
20
     mischaracterization of my opinion and what I've
21
      said. As to what another expert could conclude,
     you'd have to ask them.
22
23
     BY MR. HANAUER:
24
               You talk about how some of the
      announcements Dr. looked at related to the
25
```

```
173
      expectations of market participants as opposed
 1
      to Ripple's efforts; is that right?
 2
 3
          Α.
               You know, I think there is some
      sentences to that effect, if I remember
 4
      correctly. But why don't you point me to
      whatever it is that you're referring to so I can
 6
      respond directly.
 7
               So in paragraph 21 of your report.
 8
          Q.
          Α.
 9
               Okay.
10
               I think in the third sentence you say
      how information about Ripple's efforts could be
11
      confounded about information about the
12
13
      expectations of market participants.
          MR. FIGEL: Mr. Hanauer, just so the record
14
15
      is clear, would you mind reading the sentence
      you're referring to?
16
      BY MR. HANAUER:
17
               The third sentence of paragraph 21 of
18
      your report. Do you see that?
19
2.0
          Α.
               Beginning "Such confounding
      information"?
21
22
          Q.
              Correct.
23
               Okay, I've read it.
24
          Q.
               So the expectations of market
      participants, is that one of the factors of the
25
```

```
174
      Howey test?
 1
          MR. FIGEL: Objection.
 2
          THE WITNESS: That's a legal question. I
 3
      don't have any legal opinions that I'm offering
 4
      in this case.
      BY MR. HANAUER:
 6
 7
               Well, you state in your report a
          Ο.
      section of Howey and then you say it's referred
 8
      to as the Howey test.
 9
10
          MR. FIGEL: Objection.
      BY MR. HANAUER:
11
12
          Q.
               Paragraph seven.
13
               I say my understanding is that's a
      description of the Howey test, correct.
14
15
               And one of the factors that you
      describe the Howey test involves the expectation
16
      of market participants?
17
               Are you saying -- is that contained in
18
      what I quoted in paragraph seven? I'm not sure
19
2.0
      what you're asking me.
               So I'm guessing -- or I'm asking: Why
21
22
      is it proper to consider Ripple announcements
23
      that discuss the expectation of market
24
      participants a confounding event if that is one
      of the factors of a Howey test?
25
```

```
175
 1
          MR. FIGEL: Objection.
          THE WITNESS: Again, that sounds like partly
 2
 3
      a -- or entirely a legal -- asking for a legal
      opinion, which I'm not giving.
 4
               But you're also not focusing or looking
      at the whole sentence which describes what's
 6
 7
      meant not in terms of a legal opinion, but in
 8
      terms of how to interpret price movements.
      BY MR. HANAUER:
 9
10
               Did you do anything to determine
      whether the expectation of market participants
11
12
      was impacted by their expectation of Ripple's
13
      efforts?
14
          MR. FIGEL: Objection.
15
          THE WITNESS: You know, again, that's too
16
      vague a question.
               But it also, again, is a kind of
17
      generic question that does not in any way
18
      distinguish the relationship between Ripple and
19
2.0
      XRP and countless other examples of exactly the
21
      same thing that have nothing to do with any of
22
      the issues relating to what's -- what is a
23
      security, if what you're asking me is, is there
24
      any relationship between Ripple's efforts and
      investors' expectations about XRP. If that --
25
```

```
176
 1
      that's the way I understood the question.
      BY MR. HANAUER:
 2
 3
          Q.
               That's not my question.
               My question is --
               Okay. Then maybe I misunderstood the
          Α.
      question.
 6
 7
              -- is whether you did anything to
          Ο.
      determine whether the expectation of any market
 8
      participant was impacted by that participant's
 9
      expectation of Ripple's efforts?
10
          MR. FIGEL: Objection.
11
12
          THE WITNESS: All right. Well, at least to
13
      me that's the same question.
               I didn't do any independent analysis.
14
15
      I don't have any independent opinion on that
      subject other than to the extent that
16
      relationship exists; it is a generic
17
      relationship having nothing to do with anything
18
      that's specific to the relationship between
19
20
      Ripple and XRP but has to do with the
21
      relationship between efforts of firms or
22
      companies or founders, whatever the relevant
23
      issue that's being -- or situation that's being
24
      analyzed, and whatever the firm or product --
      firm or founder or, again, whatever the
25
```

```
177
 1
      situation is that's being analyzed, what they
      are doing and how that affects expectations of
 2
 3
      whatever, whether it's a product or an
      investment, whatever it is.
 4
               It's a completely generic question
      that, no matter how it's resolved, has nothing
 6
      to do with anything specific about the
 7
      relationship between Ripple and XRP.
 8
      BY MR. HANAUER:
 9
10
               Did you do anything to determine the
      expectation of any particular market
11
12
      participant?
13
          Α.
               No, I did not.
          MR. HANAUER: What do you say we take a break
14
15
      right now.
          THE VIDEOGRAPHER: We are going off the
16
      record. The time is 3:23 p.m.
17
                       (Whereupon, a recess was had at
18
19
                       3:23 p.m., after which the
2.0
                       deposition was resumed at
                       3:23 p.m. as follows:)
21
22
          THE VIDEOGRAPHER: This is the end of media
23
      unit two. We are going off the record. The
24
      time is 3:23 p.m.
25
```

```
178
                      (Whereupon, a recess was had at
 1
                       3:23 p.m., after which the
 2
 3
                       deposition was resumed at
                       3:42 p.m. as follows:)
 4
          THE VIDEOGRAPHER: We are --
          MR. FIGEL: Before we -- could we just get a
 6
      time check?
7
          THE VIDEOGRAPHER: Oh, I'm sorry. Yeah,
 8
      we've been on the record for 4 hours and
 9
10
      14 minutes.
          MR. FIGEL: And not holding you to anything
11
12
      Ben, but do you think we're going to go the full
      whole seven?
13
14
         MR. HANAUER: I hope not.
15
         MR. FIGEL: Okay, good.
          THE VIDEOGRAPHER: All right. We are back on
16
      the record. This is the start of media unit
17
      three, the deposition of Daniel Fischel. The
18
      time is 3:42 p.m.
19
2.0
               You may proceed.
      BY MR. HANAUER:
21
               Professor Fischel, can I please refer
22
23
      you to paragraph 23 of your report.
24
         Α.
             Okay.
          Q. And do you see in romanette (i) you
25
```

179 talk about how announcements about Ripple's 1 equity financing provide information about the 2 state of the market for XRP? 3 Α. Yes, I see that. What information do Ripple's financing amount -- I mean financing announcements provide 6 about the state of the market of XRP? 7 Well, as the paragraph describes, 8 Ripple has different sources of -- different 9 10 sources of funds. Equity issuances and selling XRP units are two different sources of funds. 11 12 So the more Ripple relies on one source 13 of funds, all else equal can communicate 14 information to market participants about their 15 need to use alternative sources of funds, such 16 as selling units of XRP. So I would say that's an example of 17 what -- as the section describes, as a compound 18 announcement. The announcement itself is about 19 20 an equity issuance by Ripple. 21 But one of the reasons it has a price effect is not because of just the equity 22 23 issuance by Ripple itself, which does not 24 directly involve XRP, but rather information that it communicates about XRP. 25

```
180
 1
               And that's, again, an example of what I
      refer to as a compound announcement because it's
 2
 3
      an announcement about one thing that has nothing
      to do with XRP but it communicates information
 4
      about market conditions for XRP, and, therefore,
      it's a compound announcement.
 6
 7
               Did you do anything to determine
          Ο.
      whether obtaining equity financing actually
 8
      decreased the supply of XRP?
 9
10
          MR. FIGEL: Objection.
          THE WITNESS: Well, first of all, that's not
11
12
      what the paragraph says. But the answer, did I
13
      actually investigate that question, no, I
      didn't.
14
15
      BY MR. HANAUER:
               Could Ripple increase its capital
16
      expenditures and research and development
17
      spending using the newly-obtained equity
18
      financing while keeping its XRP sales at the
19
2.0
      same level?
21
          MR. FIGEL: Objection.
22
          THE WITNESS: Is that possible? Yes, it's
23
      possible.
      BY MR. HANAUER:
24
          Q. Do you know whether or not Ripple did
25
```

```
181
      that?
 1
              No, I don't. I didn't investigate that
 2
 3
      question.
               But, again, that's not the point of the
 4
 5
      paragraph.
          Q. If Ripple ceased to exist as a company,
 6
      how would that impact the market for XRP?
 7
 8
          MR. FIGEL: Objection.
          THE WITNESS: I don't know. One would have
 9
10
      to speculate about the future, which is not so
11
      easy.
               And I don't know if it would be
12
13
      possible to give a definitive answer because one
      doesn't know what could happen in the future.
14
      BY MR. HANAUER:
15
          Q. Do you have an opinion one way or the
16
      other?
17
          MR. FIGEL: Objection.
18
          THE WITNESS: I don't.
19
20
      BY MR. HANAUER:
               Does Ripple going out and obtaining
21
22
      equity financing, does that involve efforts by
23
      Ripple?
24
               Well, it's a decision made by Ripple
      for sure. And what's done to the method for
25
```

```
182
 1
      what Ripple -- the steps that Ripple takes to
      raise equity funds, you just have to investigate
 2
 3
      that. I can't answer that in the abstract.
               Do you know how much money Ripple spent
 4
      to obtain equity financing?
               No, I don't, not from memory.
 6
               Did you review any documents that would
 7
          Ο.
      have shed light on how much money Ripple spent
 8
      to obtain equity financing?
 9
10
          MR. FIGEL: Objection.
          THE WITNESS: Not that I recall.
11
12
               But, again, I wasn't looking for that
13
      information, so it's possible that it was in
      some document that I saw, but I don't recall any
14
15
      discussion of that in any document that I
      remember reviewing.
16
      BY MR. HANAUER:
17
             And do you have any understanding of
18
      whether the parties that provided equity
19
20
      financing to Ripple, whether those parties
21
      sought out Ripple on their own or were they
22
      solicited by Ripple?
23
          Α.
               I don't know.
24
               And in paragraph 23, romanette (i), you
      mention Ripple's decision to escrow 55 billion
25
```

```
183
      XRP tokens?
 1
          MR. FIGEL: Objection.
 2
          THE WITNESS: Yes, that's right.
 3
      BY MR. HANAUER:
 4
               Was that an effort of Ripple to escrow
      the 55 billion XRP?
 6
 7
               Well, it was a decision by Ripple, yes,
          Α.
      it was.
 8
          Q. Could that escrowing have occurred
 9
10
      without Ripple's efforts?
          MR. FIGEL: Objection.
11
          THE WITNESS: Well, by definition, no, it
12
      couldn't.
13
14
      BY MR. HANAUER:
               And in paragraph 23 (i), you also --
15
      or, I'm sorry, paragraph 23 romanette (i), you
      talk about Ripple receiving New York's first
17
      BitLicense.
18
              Yes, that's right.
19
          Α.
20
          Q.
               And did Ripple have to undertake
      efforts to obtain that license?
21
22
          Α.
               I don't know.
23
               Do you know how much money Ripple spent
24
      associated with applying for the BitLicense?
25
          A. No, I don't.
```

```
184
 1
               In the next paragraph, paragraph 23,
      romanette (ii), you talk about the trading
 2
 3
      platforms.
          Α.
              Yes, I see that.
 4
              Do you know what efforts Ripple
      undertook to get listed on any particular
 6
 7
      exchange?
 8
          MR. FIGEL: Objection.
          THE WITNESS: No, I haven't studied that
 9
10
      either.
      BY MR. HANAUER:
11
12
               Do you know whether Ripple paid money
13
      to get listed on any exchange?
          MR. FIGEL: Objection.
14
15
          THE WITNESS: No, I don't.
      BY MR. HANAUER:
16
               Do you know any particular exchange's
17
      reasons for listing XRP?
18
          Α.
               No, I don't.
19
20
               If Ripple paid an exchange to list XRP,
      would that exchange listing of XRP involve
21
22
      Ripple's efforts?
23
               It would -- yes. If I make that
24
      assumption, it would involve Ripple's efforts,
      but that's not the same as saying that the
25
```

```
185
      information communicated would be solely as a
 1
      result of Ripple's efforts.
 2
 3
              And even with respect to Ripple's
      efforts, what I've referred to several times,
 4
     but I didn't have Dr. report in front of
     me, is paragraph 49 -- I'm sorry, footnote 49,
 6
 7
     where he states -- or at least it's -- or
      there's a reference to his report Figure 16,
 8
     where on page 34 of Dr. report where he
 9
10
      acknowledges that the majority of the 11
      announcements involve Ripple's actions.
11
12
          Q.
              But did Dr. actually look to --
13
     did Dr. do anything to determine why any
     particular exchange listed XRP?
14
15
         MR. FIGEL: Objection.
          THE WITNESS: You'll have to ask him.
16
      don't know what he did. I know what he
17
     acknowledged.
18
     BY MR. HANAUER:
19
2.0
               In that same paragraph 23, romanette
          Q.
21
      (ii), you talk about how other cryptocurrencies
      such as Bitcoin are listed on platforms without
22
     the effort of a company like Ripple.
23
24
         Α.
             Yes, I see that.
            Do you know what cryptocurrencies other
25
          Ο.
```

```
186
      than Bitcoin have been listed on exchanges
 1
      without the effort of a sponsoring company?
 2
 3
          MR. FIGEL: Objection.
          THE WITNESS: No, I don't.
 4
      BY MR. HANAUER:
               At the time the first exchange listed
 6
 7
      Bitcoin, was there a company that owned the
      majority of Bitcoin in existence?
 8
          Α.
               I don't believe so.
 9
10
          Ο.
               Has there ever been a company that
      owned the majority of Bitcoin in existence?
11
12
          Α.
               Not as far as I know.
13
               So I want to refer you now to the next
      two subparagraphs, paragraph 23, romanette (iii)
14
15
      and (iv).
16
               Do you see those?
             Yes, I see that.
17
          Α.
              Do you know what efforts Ripple
18
      undertook to get users to use its products?
19
2.0
          MR. FIGEL: Objection.
          THE WITNESS: No, I haven't studied that
21
      question.
22
23
               Again, it's like so many questions, one
24
      of his completely generic questions having
      nothing to do with any particular relationship
25
```

```
187
 1
      between Ripple and XRP.
      BY MR. HANAUER:
 2
 3
          Q.
             Do you know whether Ripple paid
      rebates, incentives, bonuses, or other
 4
      compensation in order to get users to use
      Ripple's products and software?
 6
 7
          MR. FIGEL: Objection.
          THE WITNESS: No, I don't.
 8
      BY MR. HANAUER:
 9
10
               Do you know any particular user's
      reasons for using Ripple's products?
11
12
          Α.
               Other than they made a decision it was
13
      in their interests to do so, no, I don't.
               If Ripple paid someone to use its
14
15
      products, would that person's decision to use
      the product involve Ripple's efforts?
16
          MR. FIGEL: Objection.
17
          THE WITNESS: Yes. But --
18
          MR. FLUMENBAUM: Objection.
19
20
          THE COURT REPORTER: He said objection. Got
21
      it.
          MR. FLUMENBAUM: Thank you. I didn't hear
22
23
      Reid.
24
          MR. FIGEL: I did object, Marty.
          MR. FLUMENBAUM: Good.
25
```

188 THE WITNESS: I just wanted to finish my 1 2 answer. 3 The point is not that all these actions had no involvement by Ripple, although some of 4 them apparently did not have any, at least according to Dr. 6 7 But the point is that the information content of the announcement was not solely a 8 product of Ripple's actions. 9 10 And one of the ways that you can tell that is that the actions frequently don't even 11 12 involve XRP. They involve use of Ripple's 13 software, use of Ripple's equity issuances. But 14 they have a price effect on XRP. 15 Now, why is that? Again, taking findings and his analysis at face value, the reason is that the information 17 content of an announcement that has nothing to 18 do with XRP communicates information to market 19 20 participants about market conditions for XRP 21 and, therefore, there is a price reaction for XRP, at least according to Dr. 22 23 correlation with the price reaction for XRP in

connection with an announcement that on its face

has nothing to do with XRP.

24

25

189 And that's, again, a simple and clear 1 example of why these announcements are compound 2 announcements with respect to explanations of 3 price movements of XRP, even taking Dr. 4 findings at face value. BY MR. HANAUER: 6 7 So which of Dr. -- the announcements Ο. analyzed by Dr. which of those 8 announcements had nothing to do with XRP? 9 10 MR. FIGEL: Objection. THE WITNESS: Announcements that don't refer 11 12 to XRP but at least what I'm just referring to, 13 announcements that refer to actions by Ripple independent of actions about XRP, such as 14 15 Ripple's equity issuances and use by customers of Ripple's software. 16 BY MR. HANAUER: 17 Can you name any of the announcements 18 Ripple made about its software that involved 19 20 software that did not require the use of XRP? 21 MR. FIGEL: Objection. THE WITNESS: It's not whether the software 22 23 could be used for XRP. That is one of the 24 factors that explains -- or that communicates information about potential increase in demand 25

```
190
 1
      for XRP.
               But the point is the announcement is
 2
      itself -- the announcement itself is about
 3
      decisions by third parties to use Ripple's
 4
      software. And that, notwithstanding the fact
      that the announcement itself is about a decision
 6
 7
      to use Ripple's software, again, as the
 8
      paragraph states, that also communicates
      information about the expected supply and demand
10
      for XRP from users of the XRP ledger.
      BY MR. HANAUER:
11
12
               Do you know which of Ripple's products
13
      required the use of XRP?
               No, not without studying the issue.
14
      But I don't have any opinion on that.
15
               Are you aware that some of Ripple's
16
      products and software required XRP to work?
17
               I think Ripple had a number of
18
      different products, some related to XRP, some
19
2.0
      not, some payment system products not related to
21
      XRP.
               But beyond that, I haven't studied the
22
23
      issue and I certainly don't have an opinion
24
      about it.
          Q. Can we look at Exhibit 2 to your
25
```

```
191
     report, please.
 1
 2
          Α.
               Okay.
 3
          Q.
               Who prepared Exhibit 2 to your report?
               This is just like Exhibit 1. We looked
 4
          Α.
      at Dr. backup. He has a series of
      columns, as I recall, about other announcements
 6
 7
      in his Exhibit C within certain periods of his
      event days. And we just took that data that he
 8
     himself reports and just transferred it to
 9
10
     Exhibit 2.
               I asked who prepared it.
11
12
          Α.
               You mean who -- again, I'm sorry the
13
      same question who physically prepared Exhibit 2?
14
          Q.
               Yes.
               I don't know who physically prepared
15
     Exhibit 2. It might have been a research
16
      assistant.
17
             Did you do anything to verify the
18
      accuracy of Exhibit 2?
19
2.0
          Α.
               Well, something. I mean, I looked at
21
     the various documents in Dr. event study
22
      to see how the numbers on Exhibit 2 were
23
      created. You know, I guess that's what we did.
24
               Does Exhibit 2 to your report, does it
     only identify news announcements that Dr.
25
```

```
192
      identified that were not included in his 105
 1
 2
     news days?
 3
         MR. FIGEL: Objection.
          THE WITNESS: It refers to other
 4
 5
      announcements on Dr. Exhibit C
      surrounding one or more of Dr. event
 6
 7
      days. But, frankly, I'm not sure from memory
     without checking whether any of the confounding
 8
     announcements were also themselves event days.
 9
10
     I would have to check to make sure.
     BY MR. HANAUER:
11
12
              Did Dr. determine that the
     announcements that were not in his five select
13
     categories would not be expected to move XRP
14
15
     prices?
16
         MR. FIGEL: Objection.
          THE WITNESS: I think that's what he said in
17
18
     his report.
     BY MR. HANAUER:
19
2.0
              And did you do any work or analysis to
     determine whether the excluded events actually
21
22
     did affect Ripple -- or XRP's price?
23
         MR. FIGEL: Objection.
24
          THE WITNESS: I didn't. But the point is
     there is kind of a selection bias, a
25
```

```
193
 1
      subjectivity that produces a selection bias.
               If you want to test the effective
 2
 3
      announcements on prices, if you start by picking
      your subjective judgment of the events that have
 4
      -- are the most likely to have an effect on
      prices, it's no big surprise that your
 6
 7
      subjective judgment, if you do it competently,
      is more likely to produce events that are
 8
      correlated with price movements because that's
 9
10
      your selection criteria.
               If you select important events, you're
11
12
      going to get a result that reflects your
13
      selection bias, that you're starting with
      important events that you subjectively identify
14
15
      and your results are going to reflect that.
               It's different than analyzing the
16
      number of -- the percentage of statistically
17
      significant results and not statistically
18
      significant results. If you don't use that
19
20
      selection bias, then you start with all 500
      days, for example, you would get different
21
22
      results.
23
      BY MR. HANAUER:
24
               Of the approximately 400 events that
      Dr. excluded from his analysis, how many of
25
```

```
194
      those news announcements did you read the
 1
      contents of in their entirety?
 2
 3
         MR. FIGEL: Objection.
          THE WITNESS: You know, I would say, unless
 4
      their results were quoted somewhere, probably
             In terms of the description of them, I
 6
 7
      certainly read the description provided by
     Dr. of them and why he, in his opinion,
 8
      decided not to include them in his results.
 9
10
     BY MR. HANAUER:
               Are you offering the opinion that any
11
12
     particular of the announcements that Dr.
13
     excluded from his analysis actually confounded
     or otherwise affected Dr. analysis?
14
15
         MR. FIGEL: Objection.
          THE WITNESS: Well, clearly it affected his
16
      analysis because he ignored 400 out of the 500
17
     days, rounding. Yes, that affects your
18
19
     analysis.
2.0
               If you have a percentage of days with
      significant results and a percentage of days
21
22
     without significant results, even if you're just
23
      talking about correlations, forgetting all the
24
     other methodological flaws that I've identified,
     obviously it affects your results if you throw
25
```

195 out 400 days and don't consider them and only 1 look at 100 and of those 100 only look at a 2 3 small subset of those days when there are statistically -- you find a correlation with 4 statistically significant results. Obviously that affects your results and your analysis. 6 BY MR. HANAUER: 7 8 Did you perform any work or testing to see how analysis would have changed if 9 10 any of the excluded events had, in fact, been included? 11 12 MR. FIGEL: Objection. 13 THE WITNESS: I think the point is obvious 14 from what I said. Assuming that there was some 15 principal reason for choosing -- selecting the 100 events to test and excluding the 400, if you 16 used 500 events, you would get a much lower 17 percentage of statistically significant days 18 relative to 500 days than you do relative to 100 19 2.0 days, rounding. I think it's 105 days, but it's 21 the same point. 22 BY MR. HANAUER: 23 But did you actually do any testing that included the events that Dr. excluded? 24 I didn't do any testing. But Dr. 25 Α.

196 himself states that in his report as the reason 1 why he excluded the 400 other events or the 2 3 400 -- you know, events have sort of a double meaning in this case. So why he excluded the 4 400 other announcements is probably more accurate. 6 7 And if I wanted to see how the results Ο. would change by including events that Dr. 8 excluded, would that require doing another 9 10 iteration of the event study with additional events in it? 11 12 MR. FIGEL: Objection. 13 THE WITNESS: Well, additional announcements 14 -- and, again, in answering these questions, I'm just accepting Professor -- Dr. analysis 15 at face value, meaning I'm not focused on the 16 deficiency caused -- deficiencies caused by the 17 fact that you're interpreting -- or Dr. 18 interpreting price reactions in relation to 19 20 announcements in an inefficient market, which, you know, creates serious problems of its own. 21 But putting that all to one side, it 22 23 would be possible to duplicate what Dr. 24 did, accepting all of his conditions, selection criteria, and putting to one side all the 25

```
197
     methodological flaws associated with doing that,
 1
      and do the exact same announcements with -- the
 2
 3
      exact same analysis with 500 announcements as he
     does with 100 announcements, again rounding the
 4
      500 and the 100.
     BY MR. HANAUER:
 6
 7
            It would be possible to do that
          Ο.
      testing?
 8
              Yes, absolutely it would be possible.
 9
10
          Ο.
              Did you or Compass, in fact, do that
      testing?
11
12
               No, for the reason that I stated. And
      it's also described by Dr. himself as part
13
     of his methodology and the reasons why he used
14
15
     that methodology.
               I would ask you to assume that Dr.
16
     was correct, that the excluded events should not
17
     be included in his testing.
18
               If we were to accept that assumption,
19
20
     would Exhibit 2 still support the opinion that
21
     the announcements Dr. analyzed may be
22
      confounded by other contemporaneous
23
     announcements?
24
          MR. FIGEL: Objection.
          THE WITNESS: Yes. The point would still
25
```

198 apply. 1 BY MR. HANAUER: 2 3 Q. And why is that? Because you don't have to have a 4 Α. statistically significant price reaction to have an effect on prices. And particularly in an 6 inefficient market, you cannot confidently, even 7 as a matter of correlation, associate particular 8 price movements with particular announcements. 9 10 And if you have multiple announcements, you can't tell if the, for example, the announcement 11 12 that you are calling statistically significant 13 is only statistically significant because it's partly reflecting the effects of another 14 15 announcement in the same window, you know, just 16 as an example. It's just another illustration of --17 about Dr. recognizing that he's dealing 18 with an inefficient market but not appreciating 19 20 the significance and the consequence and the implications of that admission. 21 Did you look at any news announcements 22 23 beyond the 504 -- 514 identified by Dr. 24 Α. Not that I recall. Do you consider repetitive news as 25 Ο.

```
199
     value relevant news that should be considered
 1
      separately for measuring price impact?
 2
 3
         MR. FIGEL: Objection.
          THE WITNESS: Again, it depends entirely on
 4
      the relevant facts and circumstances.
      certainly possible that information that would
 6
 7
     generally be referred to as stale, the price
      reaction to that would have to be interpreted in
 8
      light of the fact that the information is stale.
 9
10
               On the other hand, sometimes repetition
      of the same information makes the information
11
12
     more important, not less important. It just
13
     depends on the relevant facts and circumstances.
     BY MR. HANAUER:
14
15
              Did you do any work or analysis to
      determine whether any of the events identified
     by Dr. were stale or were repetitive?
17
         MR. FIGEL: Objection.
18
          THE WITNESS: No, I didn't. I saw what
19
20
     Dr. did as a justification for excluding
     certain announcements. As I said, there is a
21
     lot of subjective decision making by Dr. as
22
23
     to which announcements counted, which
24
      announcements don't count.
               It's one thing to interpret results in
25
```

```
200
      a particular way. It's another thing to
 1
      subjectively decide which observations need to
 2
 3
      be included in terms of analyzing what the
      results of a particular study show.
 4
               And I think one always needs to be
      careful, again, as a lot of support for this in
 6
 7
      the academic literature about subjectively
 8
      including or excluding which announcements or
      which events you include in a particular
 9
10
      analysis absent a principal basis for doing so.
      BY MR. HANAUER:
11
12
               Is there an objective way to determine
13
      which news should be included in Dr.
14
      analysis?
15
          MR. FIGEL: Objection.
          THE WITNESS: Well, you know, I guess one
16
      starting point is you could report results for
17
      all 514 announcements. That would be a good way
18
19
      to start.
2.0
      BY MR. HANAUER:
               Do the figures on your table in
21
          Ο.
22
      Exhibit 2 to your report, do those figures
23
      include repetitive or stale news?
24
               I don't know without looking. But,
      again, to say something is repetitive is not the
25
```

same thing as saying that it's stale.

And, again, that's a function of interpretation depending on the relevant facts and circumstances. Sometimes the repetition of an announcement can have a smaller or no effect because the effect of the announcement was earlier.

Other times you can have exactly the reverse, that a particular announcement, when it's made the first time, has a very small or no effect, but when it's made the second time has a big effect precisely because it's being repeated.

And, therefore, to arbitrarily exclude announcements because they've been in one's subjective judgment made at an earlier or something similar has been made at an earlier point in time is really an error. Because the fact that information is repeated doesn't tell you by itself whether that -- whether the repetition makes the information more important or less important.

That's just another methodological flaw in what $\operatorname{Dr.}$ did.

Q. Can you please pull out Dr.

```
202
      report.
 1
               Okay. I have it.
 2
          Α.
 3
          Q.
               And look at page 29.
          Α.
               Okay, I have it.
 4
               Look at footnote 67, please.
          Ο.
          Α.
               Okay. Just give me a second to look at
 6
 7
      it.
               Okay, I've looked at it.
 8
              And do you see how Dr. writes [as
 9
          Q.
10
      read]: On May 16, 2017, Ripple announces its
      plan to escrow 55 billion XRP tokens. A
11
12
      newsroom article from May 26, 2017, again
13
      reports Ripple's plan to escrow 55 billion XRP
      tokens. I exclude the May 26, 2017, event from
14
15
      my analysis as stale?
16
               Yes, I see that.
               Should the May 26, 2017, event
17
      referenced in that footnote, should that be
18
      considered as confounding news for the May 16th
19
2.0
      announcement?
21
          Α.
               Confounding news? I wouldn't call it
22
      confounding news.
23
               Would the May 26, 2017, announcement
24
      show up within the ten -- plus or minus ten-day
      window on Exhibit 2 to your report?
25
```

```
203
          MR. FIGEL: Objection.
 1
          THE WITNESS: It might and it should.
 2
 3
      BY MR. HANAUER:
               Why is that when you just said that the
 4
      May 26th announcement would not be confounding
      news?
 6
 7
          MR. FIGEL: Objection.
 8
          THE WITNESS: Because previously we were
      using the term to be situations where
 9
10
      confounding news was information either -- in my
      report, either information that communicated
11
12
      information about Ripple's efforts, if there
13
      were efforts, and new information about supply
      and demand conditions, as well as multiple
14
15
      announcements within a particular event window
16
      and different event windows that you cannot
      exclude the possibility, have an effect on
17
      price, particularly because of the
18
      acknowledgement that XRP is trading in an
19
2.0
      efficient market.
21
               So let's take this particular example
      of excluding 5/26. One of the things that I've
22
23
      written about in my own articles about event
24
      studies is the need to avoid "I know it when I
      see it" tests to decide what's important or not
25
```

important just based on your own subjective judgment, as opposed to doing the analysis yourself, looking at the price reaction and deciding whether or not the price reaction demonstrates that the announcement, in this case, the second announcement, relative to the first announcement is bigger, smaller, what -- or the same.

That's the proper methodology to use.

You don't know without looking based on an "I

know it when I see it" test what the

relationship is between the price effects of

these two different announcements. And because

what's involved is an inefficient market, there

is no theory for when information is reflected

in prices in an information market.

so it may be that some of the price reaction on the one announcement, either one of them, is a product of other information from the other announcement just not being reflected in prices on that day but on the other day or they're combined in some way. There is no way to know without actually doing the analysis and actually looking at the effect on prices or the correlation, to be more precise, using

205 1 term, as opposed to making a subjective judgment and arbitrarily including 2 some announcements but not other announcements. 3 Again, I just think that's a basic 4 methodological error. 5 BY MR. HANAUER: 6 7 On Exhibit 2 you say that the events Ο. Dr. included may have been confounded 8 without actually doing any analysis to determine 9 10 the impact of potentially confounding announcements? 11 12 MR. FIGEL: Objection. 13 THE WITNESS: I wouldn't say there is no 14 analysis. The announcement is the proximity in time and the significance of the proximity in 15 time, particularly in a situation where you're 16 dealing with an inefficient market when there is 17 no theory for what time period information is 18 reflected in prices, when that occurs and 19 20 whether it occurs without bias, and if there is 21 bias when the bias disappears. 22 That's the point of Exhibit 2. 23 BY MR. HANAUER: 24 Did you do any analysis or testing to make a quantitative determination on the impact 25

206 of any particular piece of potentially 1 confounding news? 2 3 MR. FIGEL: Objection. THE WITNESS: You know, again, I've tried to 4 make this point several times. It's very hard to do really and sometimes impossible to do in 6 7 an inefficient market because you don't know when the price effects of any particular 8 announcement, when they are reflected in prices 9 10 or when they're fully reflected in prices, when they're reflected in prices without bias. 11 12 If you have an efficient market, you 13 have a premise for stating that for certain 14 types of information there is empirical support for those types of announcements in an efficient 15 market, what the speed of price adjustment is to 16 new information. 17 In fact, that is one of the key 18 provisions in the Cammer factors that we 19 2.0 discussed earlier. 21 But with an inefficient market you don't have a theory of the speed of price 22 23 adjustment to new information. And that's why 24 the existence of multiple announcements in a particular window is particularly important in 25

```
207
      creating, at a minimum, caution in attributing a
 1
      correlation between a price -- between a
 2
 3
      particular announcement and a price movement
      when there are other announcements in the same
 4
      window as the announcement that, in this case,
      Dr. is attributing correlation to. And
 6
      that's what Exhibit 2 is meant to illustrate.
 7
      BY MR. HANAUER:
 8
          Q. Are you offering any opinion as to the
10
      quantitative impact of any potentially
      confounding news?
11
12
          MR. FIGEL: Objection.
13
          THE WITNESS: I would say no for the reasons
      that I just described.
14
15
      BY MR. HANAUER:
16
            How many -- besides the May 26, 2017,
      example, how many other news repetitions are
17
      included in your analysis on Exhibit 2 to your
18
19
      report?
2.0
          MR. FIGEL: Objection.
          THE WITNESS: Well, first of all, I'm not
21
      sure about the premise of your question.
22
23
               When you said that the May 26th
24
      announcement is included -- it might be -- but I
      don't have a way of knowing that for sure as I
25
```

```
208
      sit here --
 1
      BY MR. HANAUER:
 2
 3
          Q.
               Well, you included all of Dr.
      514 announcements, right?
 4
          MR. FIGEL: Just to -- just so the record is
      clear, Dr. Fischel, Professor Fischel, did you
 6
 7
      finish your answer before Mr. Hanauer asked a
      clarifying question?
 8
          THE WITNESS: No. I was trying to finish my
10
      answer.
          MR. FIGEL: Do you want the court reporter to
11
12
      read back the question on where you were?
13
          THE WITNESS: No, I remember the question.
14
               What I was about to say is, as I said,
      you might be right in what you said about the
15
      May 26th announcement. But I don't have the --
16
      I have the number of other announcements within
17
      the same windows as what's reflected in
18
      Exhibit 2, but I don't have the list of
19
2.0
      announcements themselves in front of me.
21
               So I can tell you what Exhibit 2 says,
      but I cannot say with certainty which specific
22
23
      announcements are included because I don't have
24
      them in front of me.
25
```

209 BY MR. HANAUER: 1 2 Do you know how many repetitive or 3 stale announcements are included on Exhibit 2? That's what I was trying to answer. 4 Α. I don't -- first of all, a repetitive announcement is not the same as a stale 6 announcement for reasons that I've said several 7 times. A repetitive announcement may have a 8 much bigger effect than the initial 9 10 announcement. 11 So to assume that they're stale and 12 they have no effect and you can ignore them, 13 that's a fundamental error in an event study 14 analysis. 15 So let me just start there. Apart from that, I don't know which 16 announcements you're considering to be 17 repetitive or stale; so, therefore, I do not 18 know how many of whatever you're considering to 19 2.0 be repetitive or stale, even for the moment 21 ignoring the error in equating repetitive with stale, how many of what you are defining in a 22 23 particular category, how many of those 24 announcements are included in Exhibit 2. Q. Did you do any work to determine 25

```
210
 1
     whether -- strike that.
               Did you do any work to determine the
 2
 3
      amount, if any, of repetitive or stale events
      included in Exhibit 2?
 4
         MR. FIGEL: Objection.
          THE WITNESS: I would say no because that
 6
 7
     would not be relevant for purposes of the
      analysis that I did in Exhibit 2.
 8
     BY MR. HANAUER:
 9
             So the title of Exhibit 2 is [as read]:
10
      Event days analyzed in Dr. select
11
12
     categories test may be confounded by other
13
     announcements on or near the event day.
14
         A. That's right.
          Q. And that's your opinion?
15
               That's right, particularly in the
16
      context of identifying characteristics of
17
      inefficient markets and the implications of what
18
      an inefficient market means.
19
2.0
              Are you offering an opinion that goes a
     step further than that, that the events analyzed
21
22
      in Dr. select categories' test are
23
      confounded by other announcements?
24
         MR. FIGEL: Objection.
          THE WITNESS: I think what I've said multiple
25
```

```
211
      times is in inefficient markets when there's no
 1
      theory of when information is reflected in
 2
 3
     price, it is impossible to know, if you have
     multiple announcements in a particular time
 4
     period, what price reactions can be confidently
      attributed to one announcement as compared to
 6
 7
     both announcements or even compared to neither
 8
      announcement. That's the point.
     BY MR. HANAUER:
 9
10
              So do you have any specific examples of
     news events from Dr. analysis that were
11
12
     confounded on the same day with other news?
13
          Α.
               I'd have to check. That's a good
     question. I'd have to check to be sure.
14
15
               I don't know --
          O. You don't know --
16
              I don't know without checking.
17
          Α.
               I mean, it's in the data, but I -- from
18
     memory, I don't remember.
19
2.0
               So on Exhibit 2 to your report, can we
      look at row number one.
21
               I'm sorry, this is
22
23
               Okay, I have it.
24
               And how many days are in the windows
     reflected in row number one?
25
```

- A. Ten days, plus or minus, from the event day.
 - Q. So is that 21 days total?

2.0

- A. Yes, that would be 21 days total.
- Q. And what is the fourth row, the row titled Average? What does that represent?
 - A. That means if you look at all of the event days and look at all of the other announcements within that event window and you average them all from, again, a minimum of zero to a maximum of 14 with a median of 4, you get an average of 5.
 - Q. And from Exhibit 2, can we tell if those average of five other announcements are in the first ten days of the 21-day window?
 - A. No, you can't.
 - Q. Do you know -- can you tell how many of the average of five events are on the last ten days of the 21-day window?
 - A. I mean, you could by checking, but you can't tell just looking at this exhibit.
 - Q. Is it fair to say that to reach the conclusion from Exhibit 2 to your report, that event days analyzed in Dr. category may be confounded by other announcements, that to

```
213
      reach that conclusion, it doesn't matter if the
 1
      other announcements are before, on, or after the
 2
 3
      event day analyzed by Dr.
          MR. FIGEL: Objection.
 4
          THE WITNESS: I don't know if I'd say it
      doesn't matter. Although, one of the articles,
 6
      I actually discuss it in my report, on the
 7
      existence or lack of existence of an efficient
 8
      market, does exactly what is in this exhibit of
 9
10
      looking at arbitrage opportunities both before
      and after particular events.
11
12
               So there's support in the academic
13
      literature for analyzing the issue the way I
      did. But you -- on the exhibit itself, you
14
15
      cannot tell whether the announcements are before
      or after, or most before or most after.
      BY MR. HANAUER:
17
             Does it affect your analysis?
18
               For this purpose, no, it does not
19
20
      affect my analysis.
21
               Does Exhibit 2 to your report
          Ο.
      distinguish between announcements in Dr.
22
23
      select categories on one hand and announcements
      in Dr. other categories on the other?
24
          MR. FIGEL: Objection.
25
```

```
214
          THE WITNESS: You know, you asked me that
 1
      before, and I said I'd have to check.
 2
               I think most of the -- if I remember
 3
      correctly, most of the other announcements
 4
      around the event day are not in Dr.
      select categories, but I don't remember if all
 6
 7
      of them are.
      BY MR. HANAUER:
 8
             Does it matter for your analysis?
          Q.
10
          Α.
             No.
              Did you test if any of the news
11
          Q.
12
      announcements outside of the five categories
      analyzed by Dr. were associated with
13
      statistically significant price returns?
14
15
          MR. FIGEL: Objection.
          THE WITNESS: Did I specifically test that?
16
      No, I don't think I did.
17
      BY MR. HANAUER:
18
               Did you test how quickly the effect of
19
20
      news announcements were incorporated into XRP's
21
      price?
          MR. FIGEL: Objection.
22
23
          THE WITNESS: I mean, that's -- one of the
24
      characteristics of an inefficient market is you
      don't really have a theoretical basis for
25
```

215 analyzing that question. 1 BY MR. HANAUER: 2 3 Q. So the answer is no? There's no test that you can conduct 4 Α. that can definitively answer that question if it's an inefficient market. 6 7 You can have shorter event windows, larger event windows, there's tradeoffs with 8 respect to both of those strategies. And the 9 10 reason why you have different event windows is because you can't answer the question 11 12 definitively and there's no theoretical basis 13 for doing so. That's the reason to have different 14 15 event windows. When you perform an event study, do you 16 always look for confounding news and make 17 adjustments to account for confounding news? 18 MR. FIGEL: Objection. 19 2.0 THE WITNESS: Again, every case depends on the relevant facts and circumstances. But when 21 you're dealing with an efficient market, again, 22 23 one of the definitions of an efficient market is 24 publicly available information is reflected

quickly and without bias in prices. And there

25

```
216
      has been a number of studies of how guick that
 1
      is, whether or not there's bias.
 2
 3
               So there is a framework in the academic
      literature for what the logical length of time
 4
      to look at to determine the effect of a piece of
      publicly available information, whether from an
 6
      announcement or otherwise.
 7
               And that doesn't exist in inefficient
 8
      markets. And that's why there are these
 9
10
      different trading windows -- trading event
      windows in the study that is -- I discuss in my
11
12
      report about arbitrage opportunities before and
13
      after particular events demonstrating market
      insufficiently with cryptocurrencies.
14
      BY MR. HANAUER:
15
16
          Ο.
               That's the Joo paper?
               No. I think that's the -- I just want
17
          Α.
      to look just to make sure that what I just said
18
      is accurate. But it's not the Joo paper, I
19
2.0
      don't believe.
21
               Would it be the Feng paper then?
          Ο.
               Yeah, it's footnote 71.
22
23
          MR. HANAUER: Do you mind if we take a quick
24
      break?
          MR. FIGEL: Not at all.
25
```

```
217
 1
          MR. HANAUER: Off the record, please.
          THE VIDEOGRAPHER: We are going off the
 2
 3
      record. The time is 4:45 p.m.
                       (Whereupon, a recess was had at
 4
                       4:45 p.m., after which the
                       deposition was resumed at
 6
                       5:11 p.m. as follows:)
 7
          THE VIDEOGRAPHER: We are back on the record.
 8
      The time is 5:12 p.m.
 9
               You may proceed.
10
      BY MR. HANAUER:
11
12
          Q. Professor Fischel, in other of your
13
      testifying expert engagements, have you prepared
      reports that test the market efficiency for a
14
15
      specific security?
               Certainly I analyzed that question.
16
      I'm trying to remember if any of my reports on
17
      that issue were ever filed.
18
          MR. HANAUER: Exhibit 12.
19
2.0
          THE WITNESS: And I'd have to check.
21
      Certainly, I filed a number of reports concluding
22
      that markets were efficient.
23
                        (Whereupon, Deposition
24
                       Exhibit DF-12 was marked for
25
                       identification.)
```

218 BY MR. HANAUER: 1 Is Exhibit DF-12 a copy of the expert 2 3 report you submitted in a case called Shah versus Zimmer Biomet Holdings, Inc., in the 4 Northern District of Indiana? Yes, it appears to be. 6 7 And in the Shah case, did you test the Ο. market efficiency of a specific security? 8 You know, I actually don't remember 9 10 very well, but let me just look and I can answer that question. 11 12 Yes, I did. 13 And was one of the ways you tested for market efficiency in the Shah case was by 14 15 performing an event study? 16 Α. Yes. In this case did you perform an event 17 study to test the efficiency of the XRP trading 18 markets? 19 2.0 No, for the reasons that I've stated. 21 Ο. Did you perform any work or analysis to 22 assess XRP price movement independent of 23 Bitcoin? 24 MR. FIGEL: Objection. THE WITNESS: I would say no unless one of 25

```
219
      Dr. different 20 regression
 1
      specifications, you might be able to draw
 2
      inferences about that question by looking at his
 3
      different regressions and the explanatory power
 4
      of different independent variables.
               But in terms of any independent
 6
 7
      analysis, no, I didn't.
      BY MR. HANAUER:
 8
          Q. Did you perform any work or analysis to
 9
10
      assess XRP price movement independent of any
      other digital asset other than Bitcoin?
11
12
          MR. FIGEL: Objection.
13
          THE WITNESS: Really, the same answer as I
14
      just gave.
15
      BY MR. HANAUER:
               When you're defining market efficiency,
16
          Ο.
      is it a black-and-white issue where markets can
17
      only be efficient or not efficient?
18
          MR. FIGEL: Objection.
19
2.0
          THE WITNESS: I think it depends. Define for
21
      what purpose. For purposes of interpreting
22
      price movements in an event study, I think
23
      market efficiency and satisfying the conditions
24
      for semi-strong market efficiency, I think
      that's quite important.
25
```

220

I would say more generally market 1 efficiency in a pure economic sense without 2 consideration of the context of how market 3 efficiency is either being used or not used, 4 it's probably more accurate to say that markets, depending on which market you're talking about, 6 7 it's probably more accurate to talk about a continuum of market efficiency to complete 8 inefficiency to somewhere in between. 9 10 BY MR. HANAUER: So that continuum you just discussed, 11 12 does that apply to market efficiency as it 13 relates to event studies? Not so much. I mean, that -- that's 14 what I was describing a second ago, that if you 15 want to attribute correlation, let alone 16 causation, between a particular event and a 17 particular price movement, you need some 18 empirical basis, some theoretical and empirical 19 20 basis generally from existing academic

21 literature, but also tests that you yourself can
22 perform, that gives you a basis for concluding

perform, that gives you a basis for concluding

that particular events or announcements can be

confidently associated with or correlated with

25 particular price movements.

23

24

Q. For -- as they relate to -- as it relates to event studies, what's the difference, if any, between a market being less efficient and a market being not efficient?

- A. Not very much in terms of the way event studies are usually used for purposes of analyzing the relationship between public announcements or events and price movements.
- Q. So are you saying that -- can an event study be performed to accurately test the impact between news announcements and prices when the market is less efficient but not not efficient?

 MR. FIGEL: Objection.

THE WITNESS: Well, again, I'm trying to distinguish between how event studies can be used in ways that you have confidence about the results versus how they could potentially be used.

So, for example, if you try and do an event study with an asset that's never traded, then it would be -- that's really one end of the spectrum of inefficiency, but then you get all kinds of intermediate cases that can exist where you still cannot confidently establish correlation between particular events and

222

```
particular price movements, again, depending on
 1
      the event and depending on the price movement
 2
 3
      because there may be things that you know from
      other sources that allow you to -- in
 4
      particular, the situations reach inferences
      whether or not the market is efficient.
 6
 7
               And that's -- that's the logic in these
      academic studies of having all kinds of
 8
      different windows, short windows, medium
 9
10
      windows, long windows. But, again, there's
      tradeoffs because let's say with a market that
11
12
      is not efficient but it's not like the market
13
      where nothing ever trades, and so you don't
14
      really have a basis for knowing how quickly
      prices react to new publicly available
15
      information.
16
               And the way you deal with that, the way
17
      a number of academic studies do, is you extend
18
      the event window. So instead of one day, you
19
20
      look at ten days or seven days.
21
               And that's a way to try and compensate
22
```

for the fact that you don't really have a basis or a theory for why the effect should be immediate. But the problem when you do that is you introduce the possibility that other things

23

24

25

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223
      are occurring in the seven days or the ten days
 1
      that are also having an effect other than what
 2
 3
      it is that you're measuring.
               And it's very hard to basically solve
 4
     both things at the same time, to expand event
     windows before and after to try and capture the
 6
 7
      fact that you don't know how quickly information
      is being reflected in prices and at the same
 8
     time not introduce the possibility that you're
 9
10
      also taking -- now taking into account -- or
     possibly taking into account the effect of other
11
     events that may have an influence on price but
12
13
     are not the events that you're trying to
14
     measure.
15
               So that's the basic reality. And
      that -- lengthening those event windows might be
16
      the best you can do, but then you have to
17
      interpret the results in the context of the
18
     tradeoffs that exist and the limitations that
19
     occur when you're in that position, something
20
     that Dr. did not do.
21
               So, you know, I guess that's what I
22
23
     would say.
24
     BY MR. HANAUER:
          Q. So is it Dr. opinion that the
25
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224
      XRP markets are less efficient than the stock
 1
      market or is it that they're not efficient at
 2
 3
      all?
          MR. FIGEL: Objection.
 4
          THE WITNESS: Well, you have to ask him. I
      assume he would not say that they're not
 6
 7
      efficient at all; because if they were not
      efficient at all, then price movements would
 8
      just be completely random in relation to
 9
10
      announcements or events. And I assume he
      doesn't believe that. So if --
11
12
      BY MR. HANAUER:
13
          Q.
              Do you believe that?
14
              Do I believe that the XRP market was
15
      completely inefficient, meaning there's no
      relationship between announcements and price
16
      movements? No, I don't believe that.
17
               Did you do any work in this case to
18
      determine whether the XRP trading markets were
19
20
      less efficient as opposed to not efficient?
21
          MR. FIGEL: Objection.
          THE WITNESS: You know, I reviewed a lot of
22
23
      academic literature, peer-reviewed literature on
24
      this question, as well as looking at Dr.
      own analysis. You know, you're coming up with
25
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225 1 categories that are not really typical. But I wouldn't say that I have an 2 3 opinion or there's a finding in the academic literature that there's no connection of any 4 kind between announcements and price movements, no correlation ever. I wouldn't say that no 6 7 correlation ever exists because that would be too strong. 8 BY MR. HANAUER: 9 10 Are you offering the opinion that the XRP trading markets are not sufficiently 11 12 efficient to perform an event study that 13 accurately measures the impact of news 14 announcements on price? 15 MR. FIGEL: Objection. 16 THE WITNESS: Yes. I'm saying one of the characteristics of an inefficient market, which 17 is what the academic literature finds and what 18 Dr. concedes, is it has implications for 19 20 how confident you can be, that you're accurately 21 measuring the effect or the correlation between particular events or announcements and 22 23 particular price movements. That's the meaning 24 of an inefficient market. 25

226 BY MR. HANAUER: 1 Does Dr. concede that XRP does not 2 3 trade in an efficient market? MR. FIGEL: Objection. 4 THE WITNESS: Well, you'd have to ask him. But when he reports the findings of academic 6 studies which conclude that when he talks about 7 the existence of serial correlation and comes up 8 with attempted statistical tests to try and 9 10 correct for the existence of serial correlation, which is itself a violation of a random walk and 11 12 even weak form of efficient markets, so I would 13 say, yes, he does, by the literature that he cites and the tests that he performs, and his 14 analysis of the nature of price movements in 15 16 cryptocurrency markets. 17 So yes, I would say he does acknowledge the general finding, as far as I'm aware, in 18 every academic study that considers the question 19 20 that cryptocurrency markets, in general, and 21 XRP, in particular, do not exhibit the 22 characteristics of an efficient market. 23 BY MR. HANAUER: Does he -- does Dr. say anywhere 24 in his report that XRP does not trade in an 25

227 efficient market? 1 Does he use those words? I'd have to 2 3 look but the characteristics of price movements that he describes and the empirical tests that 4 he does and the literature that he cites all demonstrate a recognition on his part that, from 6 7 his own analysis of price movements as well as the academic literature that he relies on, that 8 cryptocurrency markets, in general, and XRP, in 9 10 particular, do not -- that neither of those -or XRP as an example of cryptocurrency markets 11 12 trade in efficient market. 13 In fact, as I mentioned, the Joo 14 article, if I remember correctly concludes that 15 XRP is one of the least efficient cryptocurrency 16 markets. BY MR. HANAUER: 17 Does the Joo article say that the XRP 18 markets are insufficiently efficient such that 19 20 you can't accurately measure the impact of news 21 announcements on XRP prices? MR. FIGEL: Objection. 22 23 THE WITNESS: Well, again, I don't recall 24 exactly what they say. But what the -- the purpose of the article is to do a test of market 25

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228
      efficiency, to conclude one way or the other
 1
      whether cryptocurrency markets, and XRP in
 2
 3
      particular, trades in an efficient market. And
      the conclusion of the article is that they
 4
      don't. Crypto markets generally don't trade in
      an efficient market, and crypto -- and XRP
 6
      specifically does not trade in an efficient
 7
      market.
 8
               In fact, it's farther away from an
10
      efficient market than other cryptocurrencies.
      BY MR. HANAUER:
11
12
               In an efficient market are stock price
13
      increases associated with positive relevant news
14
      announcements?
          MR. FIGEL: Objection.
15
          THE WITNESS: Not necessarily.
16
      BY MR. HANAUER:
17
             When an -- when the market is
18
      efficient, when are stock price increases
19
20
      generally -- strike that.
21
               In an efficient market, are stock price
      increases generally associated with positive
22
23
      relevant news announcements?
24
          MR. FIGEL: Objection.
          THE WITNESS: Well, statistically significant
25
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229
      price increases are, by definition, positive.
 1
 2
      Whether they are associated with positive
 3
      announcements generally is too vague of a
      question. You need a definition of what a
 4
      positive announcement is. Is it the language is
      positive? That certainly is not the case.
 6
 7
      There are many positive-sounding announcements
      that have big negative stock price consequences.
 8
               So it just depends. You have to look
10
      at the actual data. And as I said in my answers
      a few minutes ago, you can't just rely on a "I
11
      know it when I see it" test.
12
13
               You have to actually look at what
14
      happens with a particular announcement and what
15
      the price reaction is in relation to that
16
      announcement.
      BY MR. HANAUER:
17
               In an efficient market, does the price
18
      of a security react to news that is not
19
2.0
      material?
21
          MR. FIGEL: Objection.
          THE WITNESS: The price reflects all publicly
22
23
      available information. So in that sense, the
24
      answer is yes.
25
               Whether that reaction is statistically
```

230 significant, that's a different question, and 1 whether you can exclude the possibility that the 2 3 price reaction is attributable to chance alone, that's also a different question. 4 But the definition of a semi-strong efficient market is that prices react to all 6 publicly available information, whether material 7 or not, it's just you can't tell whether the 8 movement also is random and, therefore, 9 10 something that you can't reject the hypothesis that the movement is attributable to chance 11 12 alone. BY MR. HANAUER: 13 When did securities markets become 14 sufficiently efficient for event studies to 15 16 accurately measure the impact of news announcements on stock prices? 17 MR. FIGEL: Objection. 18 THE WITNESS: Well, that's a pretty broad 19 20 question. You know, I'm not sure there is a 21 clear answer to it in terms of a dividing line chronologically. 22 23 You know, a lot of the famous articles 24 about market efficiency I think started appearing in the '70s and then, you know, 25

```
231
      continued since then.
 1
      BY MR. HANAUER:
 2
 3
          Q.
             Were securities markets sufficiently
      efficient for event studies to accurately
 4
      measure the impact of news announcements on
      stock prices before the advent of the internet?
 6
 7
          MR. FIGEL: Objection.
 8
          THE WITNESS: I think many of the main
      studies of market efficiency on which event
 9
10
      studies relied occurred before the advent of the
      internet.
11
12
      BY MR. HANAUER:
13
               Same question but instead of internet,
      what if I were to -- well, I'll just ask the
14
15
      question.
               Were securities markets sufficiently
16
      efficient for event studies to measure the
17
      impact of news announcements on stock prices
18
      before CNBC or Bloomberg were widely available?
19
2.0
          MR. FIGEL: Objection.
21
          THE WITNESS: Well, part of my problem is I
      don't know when CNBC and Bloomberg were widely
22
23
      available. But in terms of the academic
24
      literature on the efficiency of prices, I
      don't -- I haven't reviewed them recently with
25
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232
      that -- or ever with that question in mind, you
 1
      know. So I -- I would think the answer to that
 2
 3
      is yes, but I would have to investigate it a
      little bit further to -- I don't know if
 4
      Bloomberg was available in -- well, I guess
      Bloomberg is because of Bloomberg. I don't
 6
 7
      know. He's -- I don't know how old he is, so I
 8
      don't know the answer to your question.
               I would say probably, but I'd want to
 9
10
      investigate more, for sure.
      BY MR. HANAUER:
11
12
          Q. Are the cryptocurrency markets more or
13
      less efficient over the past five years than the
      stock market was in the 1980s?
14
15
          MR. FIGEL: Objection.
          THE WITNESS: You know, it's an odd
16
17
      comparison.
          MR. FLUMENBAUM: It's way beyond the scope,
18
      too. I mean, I don't understand this line of
19
20
      questioning. It has nothing to do with his
21
      report.
22
          MR. HANAUER: Anything else, Counsel?
23
          MR. FLUMENBAUM: No.
24
          THE WITNESS: I started to say, it's sort of
      a very odd question of comparing one against the
25
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233
      other in different markets with different types
 1
      of claims. I don't know if that specific
 2
 3
      question has ever been studied.
      BY MR. HANAUER:
 4
             Have you ever studied that question?
          MR. FIGEL: Objection.
 6
 7
          THE WITNESS: No. I would say the one thing
      that I have done is used event studies using
 8
      data from the 1980s based on literature,
 9
10
      academic literature on the efficiency of markets
      at that time. And I don't think there's a
11
12
      similar academic literature about
13
      cryptocurrencies in the last five years. So I
      haven't studied that question. I don't want to
14
      express an opinion about that question.
15
               But to the extent I have a reaction to
16
      the question, it's what I just said.
17
      BY MR. HANAUER:
18
               Going back to the Cammer factors that
19
20
      you referenced earlier today, what's the
21
      methodology for determining whether a market is
      efficient or not when certain of the Cammer
22
23
      factors support efficiency but certain don't?
2.4
          MR. FIGEL: Objection.
          THE WITNESS: Well, that's partly a legal
25
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234
      question again, and I'm not expressing a legal
 1
      opinion. But I think there is a general
 2
 3
      understanding that certain factors are more
      important than others.
 4
      BY MR. HANAUER:
               And which are the most important
 6
      factors?
 7
               Well, again, it might, you know, depend
 8
      on the relevant facts and circumstances that are
 9
10
      at issue. But, generally, it's the extent that
      one can say that the -- that price reactions to
11
12
      particular events occur quickly and without
13
      bias. I think that's generally regarded as
      probably the most important factor; certainly
14
15
      the most important economic factor. And I -- so
      that's what I would say.
16
               So beyond the Cammer factors to
17
      determine the efficiency of a market for a
18
      digital -- or I'm sorry.
19
2.0
               To determine the efficiency of a market
21
      for a particular asset, can you also
22
      appropriately consider a company's
23
      capitalization?
24
          MR. FIGEL: Objection.
          THE WITNESS: Yes, I think you can
25
```

235 appropriately consider a company's 1 capitalization. 2 BY MR. HANAUER: 3 What about bid/ask spread? 4 Q. That's another factor that has sometimes been considered certainly by courts. 6 7 What about percentage --Ο. 8 Α. And bid/ask spread is a measure of liquidity, and liquidity can be correlated with 9 the speed of price adjustment to new 10 information. 11 12 Are you offering any opinion as to the 13 liquidity of the XRP markets? 14 No, I'm not. 15 Did you perform any work or analysis to determine the period of time by which 16 information is fully incorporated into XRP 17 prices without bias? 18 Well, that's part of the problem; you 19 20 don't know that. That's, again, one of the characteristics of the inefficient market. I'm 21 22 just going to repeat again what I just said. 23 That's the logic of using different event 24 windows because you don't know, so you increase the event window hoping that the effect of a 25

236 particular or a -- that a particular event is 1 2 correlated with a price movement within a 3 certain period of time, so you have short event windows and then longer event windows. 4 But, first of all, you don't even know with the longer event window that that fully 6 7 captures the -- what the price reaction that's correlated with a particular event. 8 But, again, even if you could solve 9 10 that problem, you introduce another problem, which is you start introducing unrelated events. 11 12 And, again, that just creates another problem in 13 figuring out how much of a price reaction is correlated with a particular disclosure or 14 15 event. Did you perform a Cammer analysis in 16 this case? 17 I think I answered that question a 18 number of hours ago. I suggested that it would 19 20 be interesting to do, in some sense knowing the 21 answer, but I'm not sure whether the people that 22 I was working with actually implemented the 23 analysis as opposed to just something we 24 discussed.

Q. Are you offering the opinion then on

25

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237
     the outcome of any Cammer analysis as it relates
 1
     to XRP?
 2
 3
          Α.
              I do not --
         MR. FLUMENBAUM: Objection.
 4
          THE WITNESS: I wouldn't say I'm offering an
      opinion about it. I haven't offered an opinion
 6
      about it. But I think the implication of the
 7
      conclusion and all of the academic studies as
 8
     well as in Dr. report that XRP does not
 9
     trade in an inefficient market means that XRP
10
     would not satisfy the Cammer factors.
11
     BY MR. HANAUER:
12
13
              How does XRP's daily trading volume
     compare to that of smaller stocks on the S&P 500
14
15
      index?
16
         MR. FIGEL: Objection.
         MR. FLUMENBAUM: Objection.
17
          THE WITNESS: I don't know. I would have to
18
     look.
19
     BY MR. HANAUER:
20
21
            Is XRP covered by investment
          Ο.
22
     professionals?
23
          MR. FIGEL: Objection.
24
         MR. FLUMENBAUM: Objection.
25
          THE WITNESS: I'm sure there are some
```

```
238
      investment professionals who try and follow
 1
      price movements of XRP.
 2
      BY MR. HANAUER:
 3
              Do you know the extent of coverage of
 4
      XRP by investment professionals?
          MR. FIGEL: Objection.
 6
          THE WITNESS: I haven't specifically studied
 7
      that question.
 8
      BY MR. HANAUER:
 9
10
             Are there market makers that make a
      market in XRP?
11
12
          MR. FLUMENBAUM: Objection.
13
          THE WITNESS: I haven't specifically studied
      that question either.
14
15
      BY MR. HANAUER:
               Are you aware of the allegation in the
16
      amended complaint that Ripple paid market makers
17
      to make a market in XRP?
18
          MR. FLUMENBAUM: Objection.
19
20
          THE WITNESS: You'd have to show it to me.
      BY MR. HANAUER:
21
               How does Ripple's capitalization
22
23
      compare to smaller stocks on the -- smaller
24
      companies included in the S&P 500 index?
          MR. FIGEL: Objection.
25
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239
 1
          MR. FLUMENBAUM: Objection.
          THE WITNESS: I haven't studied that
 2
 3
      question.
      BY MR. HANAUER:
 4
             Have you studied the bid/ask spread in
      the XRP markets?
 6
 7
          MR. FIGEL: Objection.
          THE WITNESS: No, I haven't.
 8
      BY MR. HANAUER:
 9
10
               Have you studied the percentage of XRP
      tokens held by the public?
11
12
          MR. FIGEL: Objection.
13
          THE WITNESS: No, I haven't.
      BY MR. HANAUER:
14
               Are you able to provide specific
15
      examples of Ripple news announcements that you
      think were not fully incorporated into XRP's
17
      price within three days?
18
          MR. FIGEL: Objection.
19
2.0
          MR. FLUMENBAUM: Objection.
21
          THE WITNESS: You know, it's the same problem
22
      because the stock -- not the stock, excuse me --
23
      because XRP does not trade in an efficient
24
      market. There is no way to know whether the
      price effect is fully incorporated within three
25
```

240 days or any other time period. 1 And by the way, that is why the price 2 reaction test is generally considered to be the 3 most important test that determines whether a 4 stock trades in an efficient market and the Cammer factors as well. 6 BY MR. HANAUER: 7 8 Isn't that sort of circular, that Q. you're saying you need to establish in the 9 10 Cammer factors a cause-effect relationship 11 between news announcements and stock price 12 movement, but that you can't make that 13 determination until you establish the Cammer factors? 14 15 MR. FIGEL: Objection. THE WITNESS: It's not circular because one 16 17 of the things that the academic studies do is, you know, for example, look for serial 18 correlation, look for arbitrage opportunities, 19 2.0 things that would not exist if prices fully reflected the effects of particular 21 22 announcements or other types of publicly 23 available information. If that were true, then 24 there would be no arbitrage opportunities, there wouldn't be serial correlation, you wouldn't 25

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241
      need to have these different studies looking at
 1
      different event windows, et cetera.
 2
 3
               So, you know, that's why the Cammer
      factors are a way to look at a series of
 4
      different factors to determine whether, in the
      case of the Cammer factors, a stock or other
 6
 7
      security trades in an efficient market.
 8
               But with respect to cryptocurrencies
      and XRP, based on the academic literature, based
 9
10
      on Dr. own findings, you already know it
      doesn't trade -- XRP doesn't trade in an
11
12
      efficient market and, therefore, you know it
13
      wouldn't satisfy the Cammer factors, which are
14
      intended to be a test of whether a particular
15
      security or financial asset trades in an
      efficient market.
16
      BY MR. HANAUER:
17
             Did Ripple have policies that
18
      contemplated the public announcements about
19
20
      Ripple or the XRP protocol could affect the
      decision to buy or sell XRP?
21
          MR. FIGEL: Objection.
22
23
          THE WITNESS: I don't know.
24
      BY MR. HANAUER:
          Q. Did Ripple have policies that
25
```

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242
 1
      contemplated that certain announcements by
      Ripple could significantly affect the trading
 2
 3
      price of XRP?
          MR. FIGEL: Objection.
 4
          MR. FLUMENBAUM: Objection. He's not a fact
      witness. He's not testifying --
 6
 7
          MR. HANAUER: Speaking objection, Counsel.
          MR. FLUMENBAUM: You're way beyond what
 8
      you're allowed to ask him --
 9
10
          MR. HANAUER: Speaking objection, Counsel.
         MR. FLUMENBAUM: -- as an expert.
11
12
          MR. HANAUER: Can you reread the question,
13
      please?
                       (Whereupon, the record was read
14
15
                       as requested.)
          MR. HANAUER: I'll restate it.
16
      BY MR. HANAUER:
17
              Did Ripple have policies that
18
      contemplated that certain announcements by
19
20
      Ripple could significantly affect the trading
      price of XRP?
21
22
          MR. FIGEL: Objection.
23
          MR. FLUMENBAUM: Objection.
24
          THE WITNESS: I don't know.
25
```

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243
      BY MR. HANAUER:
 1
             Did Ripple advise its employees that
 2
      Ripple's news announcements become generally
 3
      known two days following an announcement?
 4
         MR. FIGEL: Objection.
          MR. FLUMENBAUM: Objection, improper
 6
 7
      question.
          THE WITNESS: I don't know.
 8
      BY MR. HANAUER:
 9
10
             Have you reviewed any of Ripple's
      internal codes of conduct?
11
12
          Α.
             No.
13
              Have you reviewed any of Ripple's
      insider trading policies?
14
15
         Α.
               No.
               Are you aware whether or not Ripple has
      insider trading policies or ever did?
17
         MR. FLUMENBAUM: Objection.
18
          THE WITNESS: I don't recall one way or the
19
20
      other.
          MR. HANAUER: One moment please while I
21
22
      confirm with counsel.
23
          MR. FIGEL: Could we also get a time check?
24
          THE VIDEOGRAPHER: Yeah, we've been on the
      record a little over six hours.
25
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244
          MR. FIGEL: So we have one hour left to get
 1
      to seven?
 2
 3
          THE VIDEOGRAPHER: I believe so, yeah. A
      little over six hours.
          MR. HANAUER: Let's go off the record and
      take a very short break, please.
 6
 7
          THE VIDEOGRAPHER: We are going off the
      record. The time is 5:55 p.m.
 8
                      (Whereupon, a recess was had at
 9
10
                       5:55 p.m., after which the
                       deposition was resumed at
11
12
                       5:58 p.m. as follows:)
13
          THE VIDEOGRAPHER: We are back on the record.
14
      The time is 5:58 p.m.
15
               You may proceed.
16
          MR. HANAUER: Thank you, Professor Fischel.
      The SEC has no further questions at this time.
17
          MR. FIGEL: No question from Ripple Labs.
18
          THE COURT REPORTER: Anybody on the phone?
19
2.0
          MR. FIGEL: Mr. Flumenbaum?
21
          THE VIDEOGRAPHER: Are we on mute?
          THE COURT REPORTER: No.
22
23
          MR. FLUMENBAUM: No questions.
24
          THE COURT REPORTER: I think we have standing
      orders for you guys on this case?
25
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245
 1
          MR. HANAUER: In terms of delivery and all
 2
      that?
          THE COURT REPORTER: Yeah.
 3
          MR. HANAUER: We can go off the record.
 4
          THE VIDEOGRAPHER: This is end of media unit
      three. This concludes the deposition of Daniel
 6
 7
      Fischel. The video will be retained by
      Gradillas Court Reporters.
 8
 9
               We are going off the record. The time
10
      is 5:59 p.m.
11
                       (Whereupon, the witness was
                       excused.)
12
13
                       (The proceedings concluded at
                       5:59 p.m.)
14
15
16
17
18
19
20
21
22
23
24
25
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		246
	CERTIFICATE OF WITNESS	
	I, DANIEL R. FISCHEL, do hereby declare under	
	penalty of perjury that I have read the entire	
	foregoing transcript of my deposition testimony,	
	or the same has been read to me, and certify that	
	it is a true, correct and complete transcript of	
	my testimony given on February 28, 2022, save and	
	except for changes and/or corrections, if any, as	
	indicated by me on the attached Errata Sheet, with	
	the understanding that I offer these changes and/or	
	corrections as if still under oath.	
	I have made corrections to my deposition.	
	I have NOT made any changes to my deposition.	
i	Signed: DANIEL R. FISCHEL	
	DANIEL K. PISCHEL	
	Dated this day of of 20	
i	Sworn to and Subscribed before me,	
	thisday of, 20	
]	Notary Public My commission expires:	

247 STATE OF ILLINOIS 1 2 COUNTY OF COOK 3 I, CHERYL L. SANDECKI, a Certified 4 Shorthand Reporter within and for the State of Illinois, do hereby certify that heretofore, 6 7 to-wit, on February 28, 2022, personally appeared before me, at 110 North Wacker Drive, 8 Chicago, Illinois, DANIEL R. FISCHEL, in a cause 9 10 now pending and undetermined in the United States District Court, Southern District of New 11 12 York, wherein Securities and Exchange 13 Commission is the plaintiff and RIPPLE LABS, INC., BRADLEY GARLINGHOUSE, and CHRISTIAN LARSEN 14 15 are the Defendants. I further certify that the said 16 DANIEL R. FISCHEL was first administered an oath 17 to testify the truth, the whole truth and 18 nothing but the truth in the cause aforesaid; 19 2.0 that the testimony then given by said witness 21 was reported stenographically by me in the presence of the said witness, and afterwards 22 23 reduced to typewriting by Computer-Aided 24 Transcription, and the foregoing is a true and correct transcript of the testimony so given by 25

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248
       said witness as aforesaid.
1
              I further certify that the signature to
 2
       the foregoing deposition was reserved by counsel
 3
       for the respective parties and that there were
 4
       present at the deposition the attorneys
       hereinbefore mentioned.
6
 7
              I further certify that I am not counsel
       for nor in any way related to the parties to
 8
       this suit, nor am I in any way interested in the
9
10
       outcome thereof.
              IN TESTIMONY WHEREOF: I certify to the
11
12
       above facts this 1st day of March, 2022.
13
14
15
16
17
18
                   CHERYL L. SANDECKI, RPR, CLR
                   CERTIFIED SHORTHAND REPORTER
                   IL CSR NO.: 084-03710
19
                   ID NO.: SRL-1145
                   NJ CCR NO.: 30XI00241500
2.0
                   TN NO.: 823
21
                   WA CCR NO.: 22001795
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	tion of: DANIEL R. FISCHEL	
	aken: FEBRUARY 28, 2022	
Case:	SEC v. RIPPLE LABS, INC., et al.	
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